# The Builder

A NEWSPAPER FOR THE ARCHITECT AND CONSTRUCTOR

NO. 6084 117TH YEAR. FRIDAY, DECEMBER 25, 1959. Price 1/6.

**seasonal greetings**

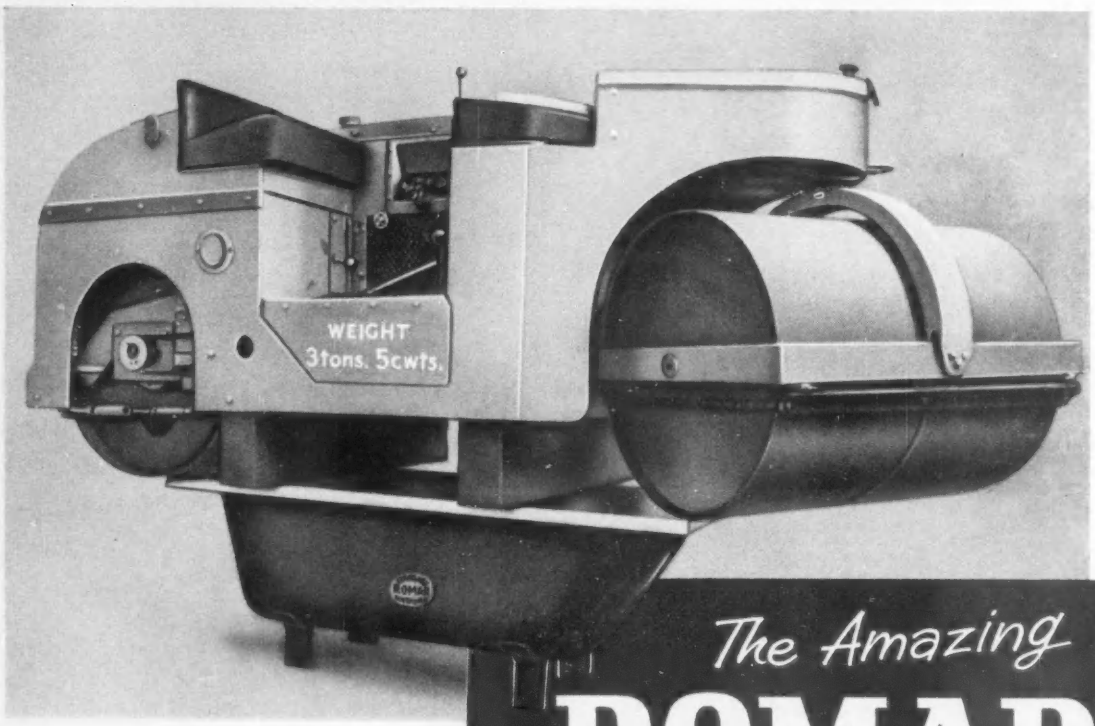
*to all in the Building Industry from* CIBA

**CIBA (A.R.L.) LTD**

DUXFORD CAMBRIDGE

*makers of Aerolite, Aerodux and Araldite resins and resin adhesives*

# A Revolution in Bath Production!




## The Amazing ROMAR pressed steel bath (IMPORTED)

**This test proves the amazing strength and stability of the ROMAR**

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*(Weighs only 88 lbs.)*

The Romar bath is seamless drawn in one piece from specially selected high grade steel. The porcelain enamel finish is of acid-resisting quality which is normally chargeable as an 'extra' on Cast Iron baths

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*the importance of*

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Architects: Houston and Forbes,
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- A firm and solid roof giving flexibility in design.
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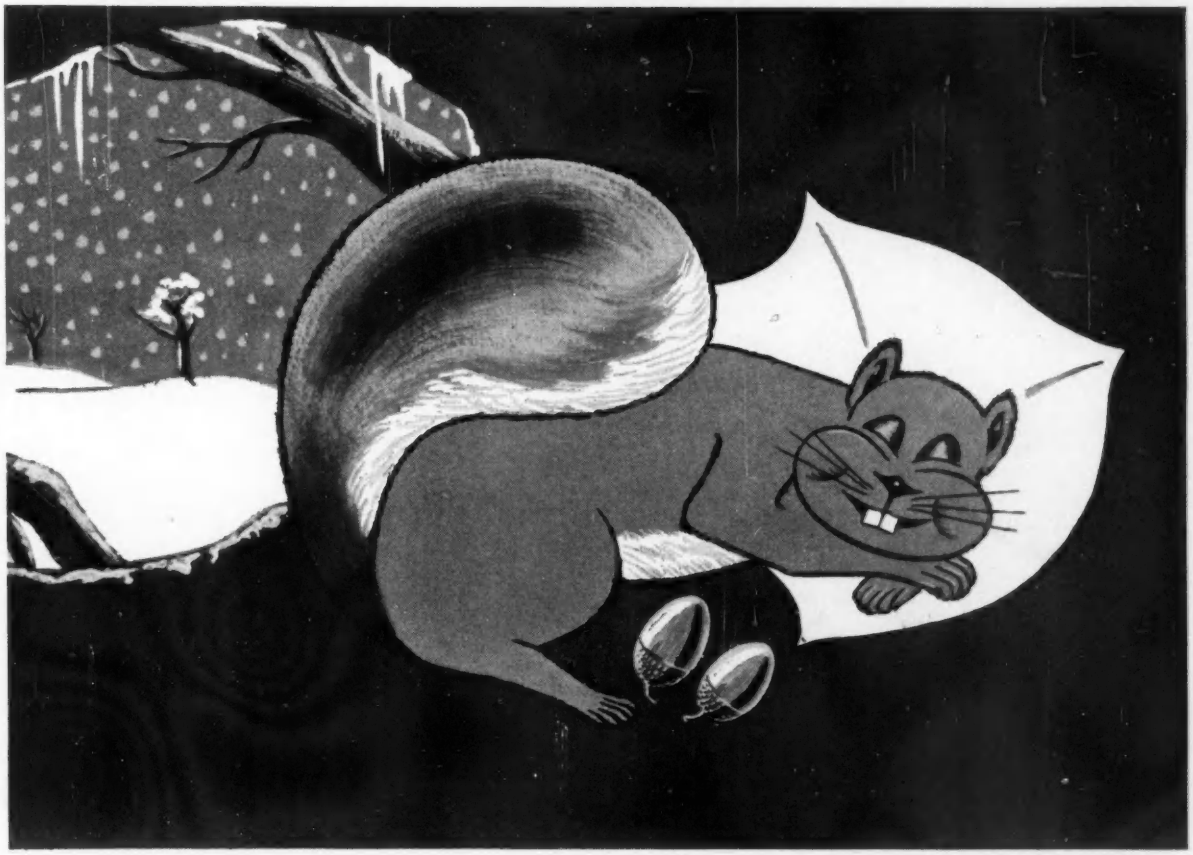
# Squirrels hibernate



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* *Proved in service for 25 years* * *Supplied in 40 gallon free and non-returnable drums*

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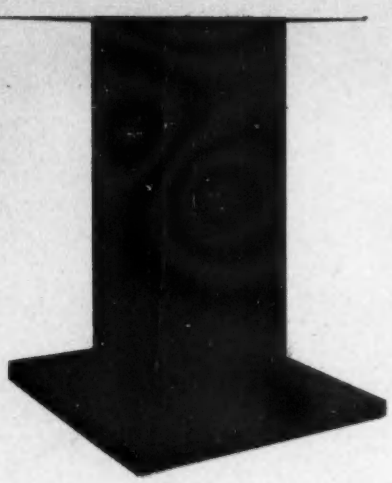

# ...no rivets?

*There aren't so many rivets in to-day's steelwork, because Britain's steel industry is now rolling new beams and columns, so proportioned as to carry the load without needing riveted-on plates. Welding also reduces the amount of riveting, and results in a neat, compact construction.*

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These advances mean that the finished structure is cheaper, because steel and labour are saved.

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FURTHER SAVINGS Fire-proof encasement, hitherto calculated as a burden on the steelwork, is now accepted as contributing to its strength: so that columns can be slimmer, saving steel and labour.

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*Architects: Powell & Moya, F./F.R.I.B.A.*
*Contractors: M. J. Gleeson (Contractors) Ltd.*

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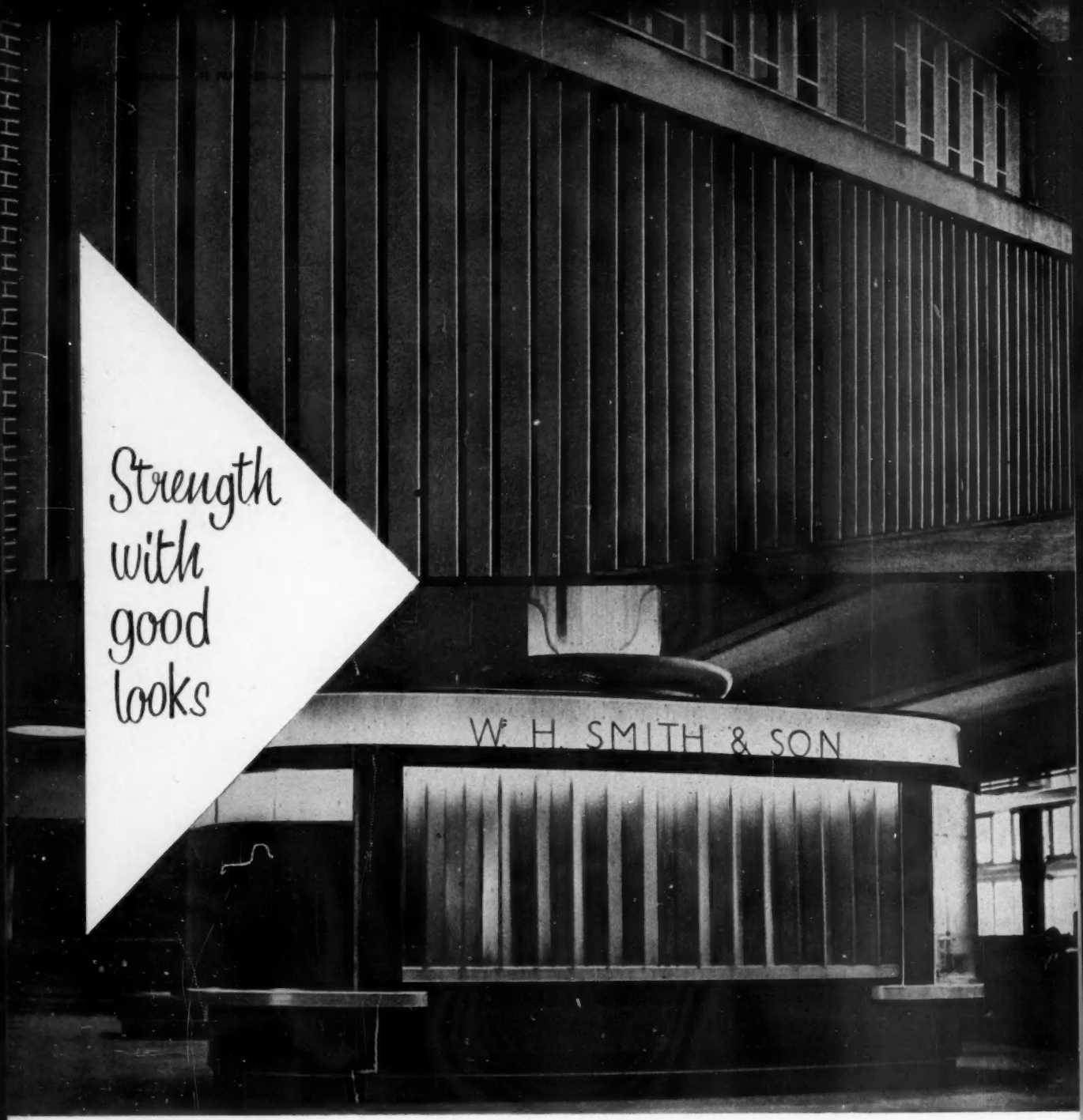


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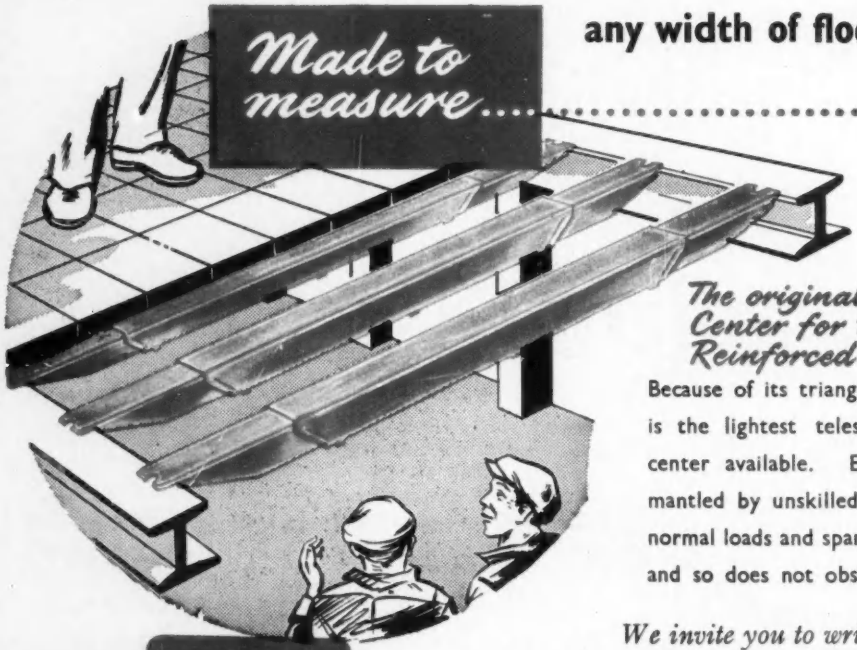

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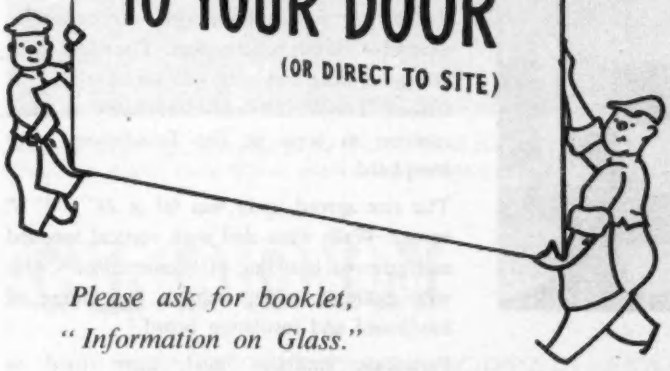

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CASE RECORDS FROM THORNS' FILES—2

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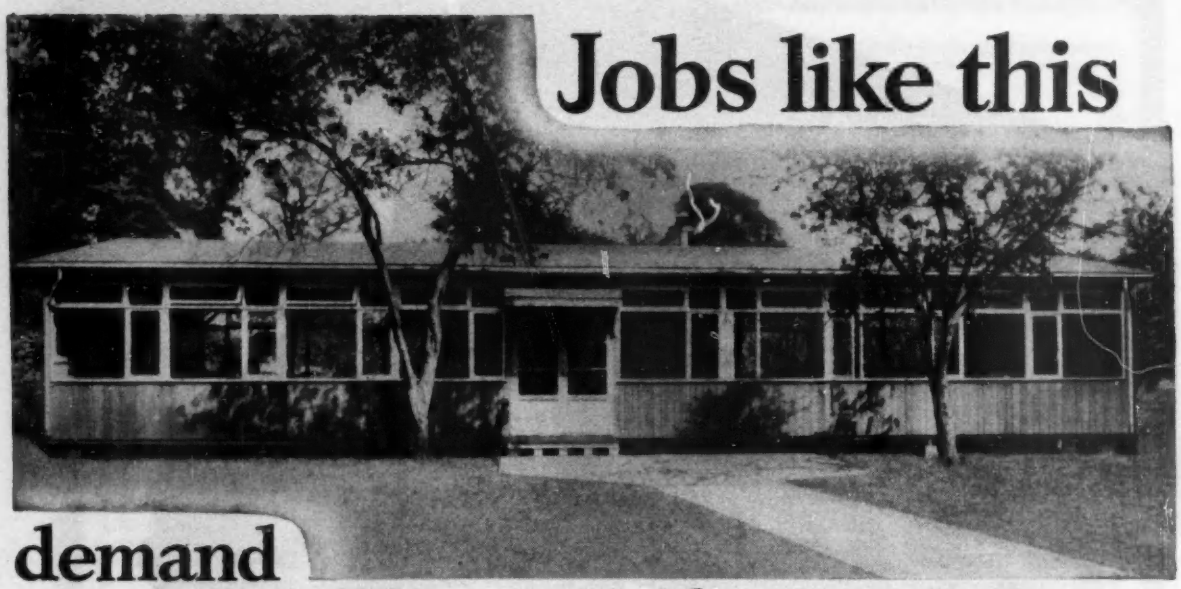
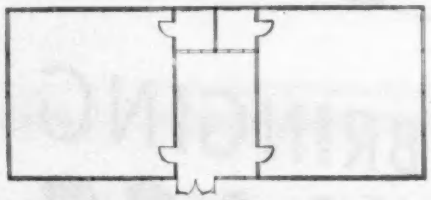
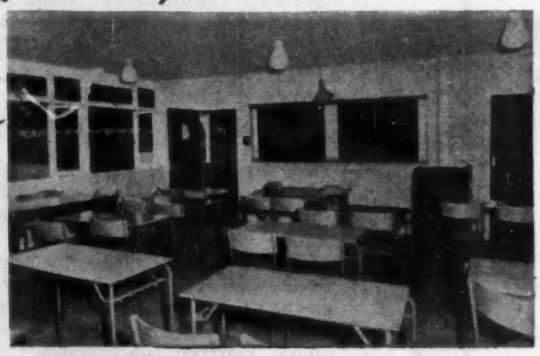


# demand *versatility... speed... economy...*

SPECIFICATION
A timber building to form two classrooms, each 24' x 24'. A store room for each classroom and a cloak bay to house 80 coat pegs. A timber floor and flat ceiling providing space for electric lighting. The building to be based on a panel unit, capable of being dismantled and removed to another site in approximately two years' time. Erection to be carried out by supplier on a prepared foundation.



**FAIRFORD FARMOR'S SECONDARY MODERN SCHOOL, near Cirencester, Glos.**



*Photographs by courtesy of the County Architect Gloucestershire County Council*

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BD 308

# CLODIN MORTAR

## FOR ECONOMY AT ITS BEST IN SITE-CONDITIONS AT THEIR WORST

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An aerial view of part of Giants' Grave Housing Site of the Neath Borough Council at Briton Ferry, Glam., where Clodin is being used exclusively.

*Douglas Bailey, M.I.C.E., M.I.Mun.E., A.M.I.W.E., Chartered Civil Engineer. Borough Engineer.*

*Contractors: Gibson & King Ltd., Milford Haven and Swansea.*

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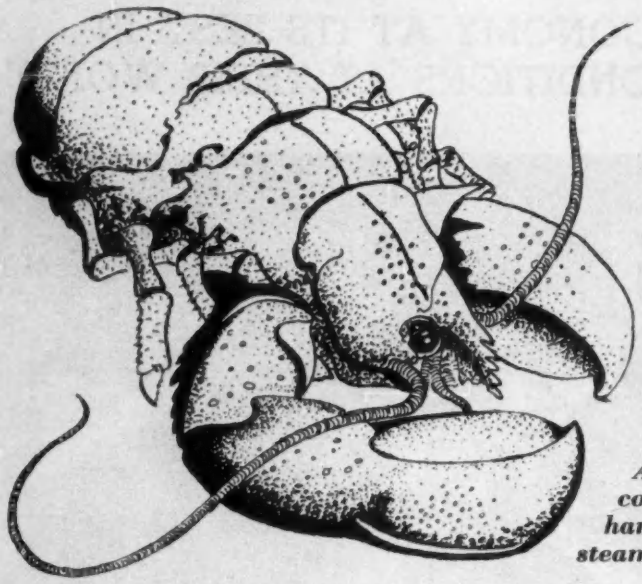

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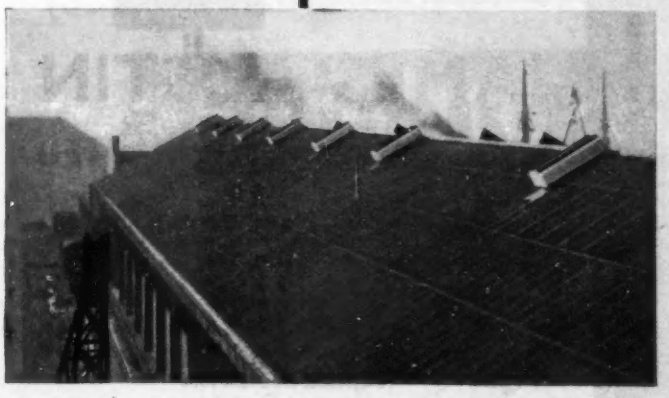

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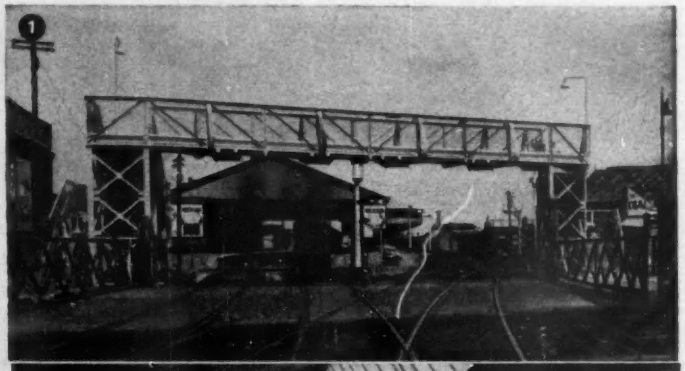

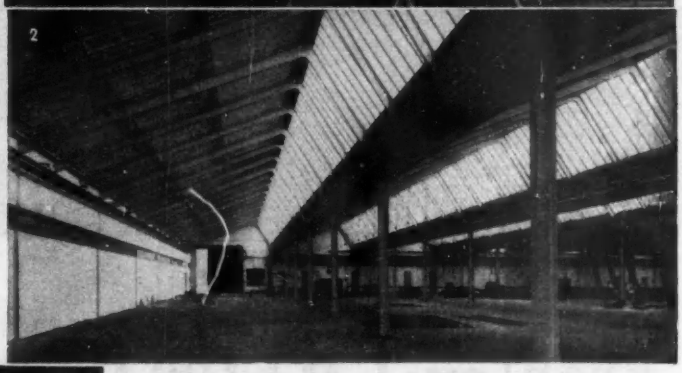

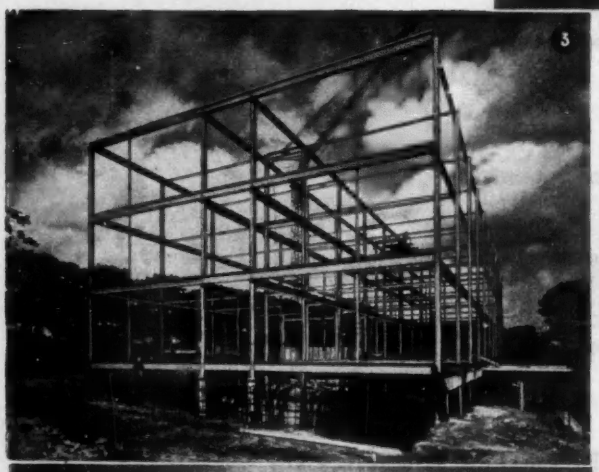

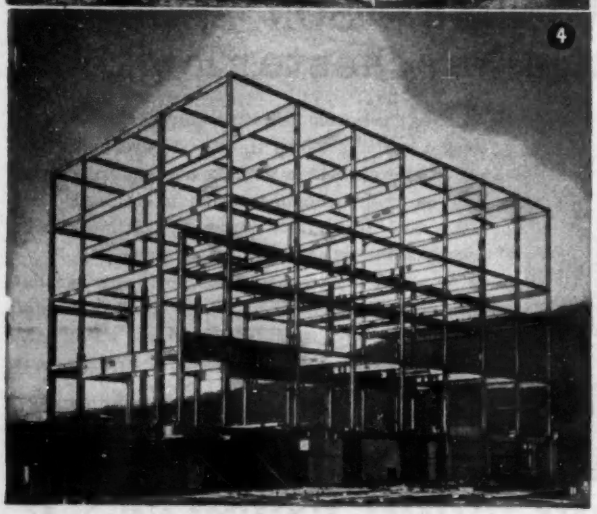

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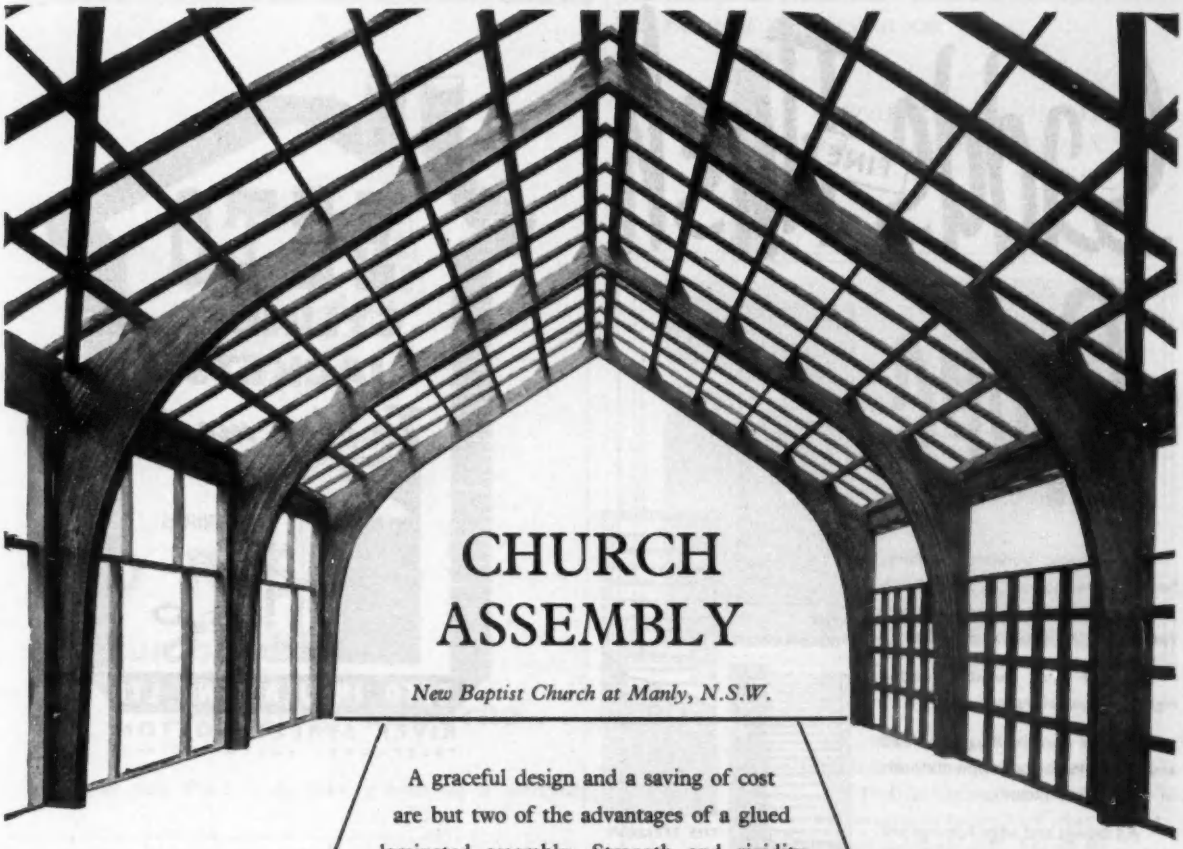

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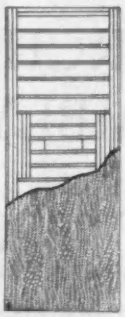

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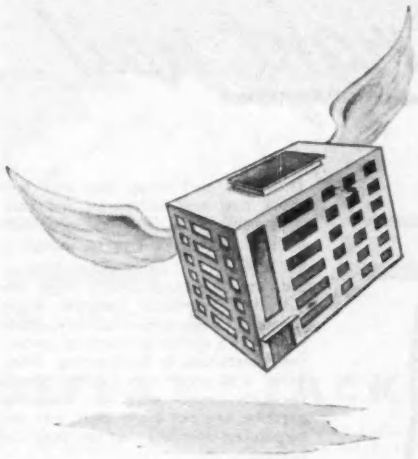

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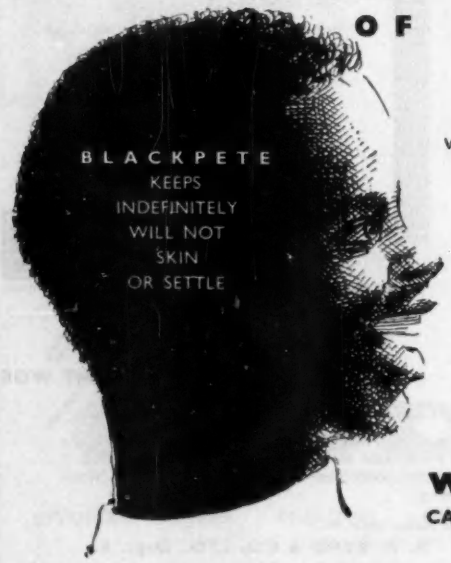


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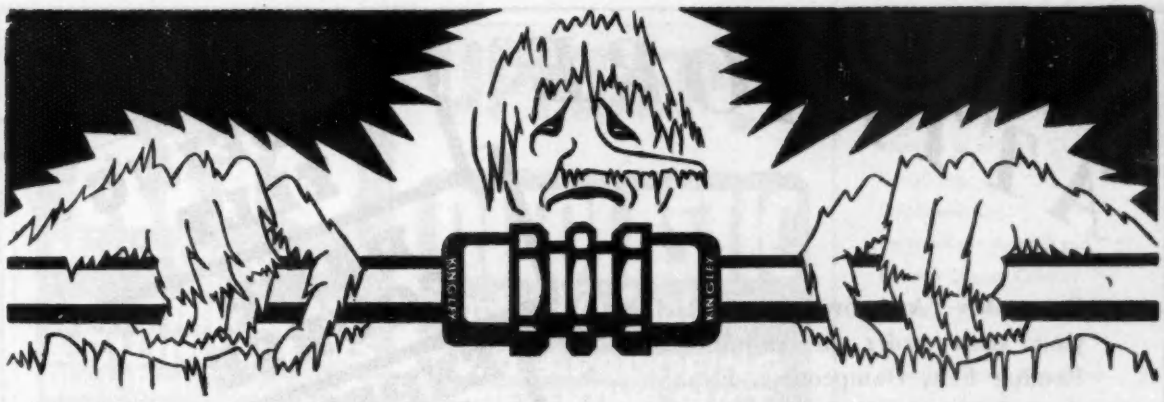


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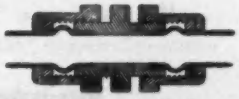

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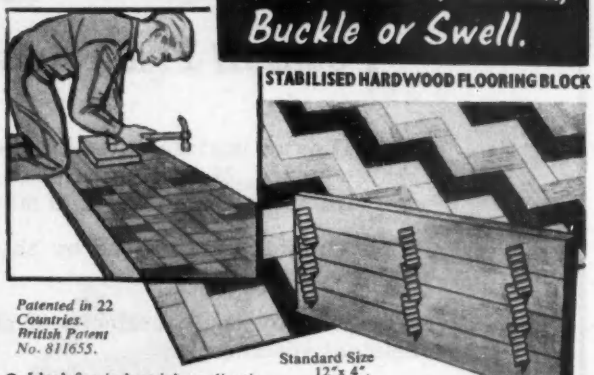

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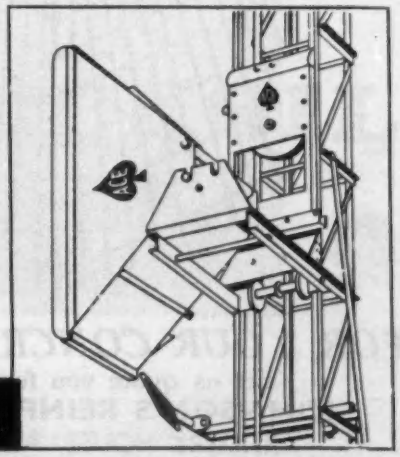

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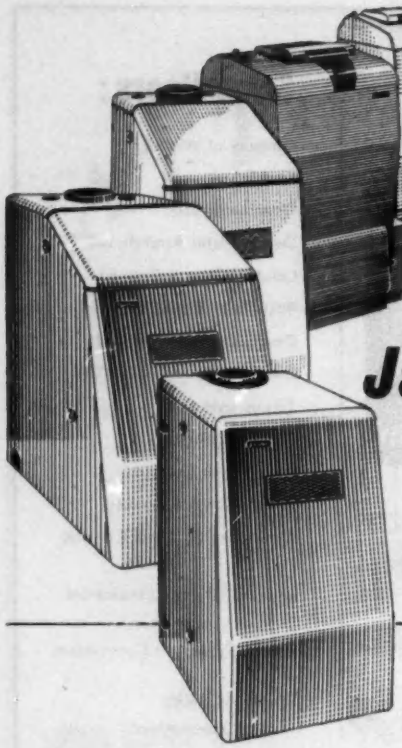

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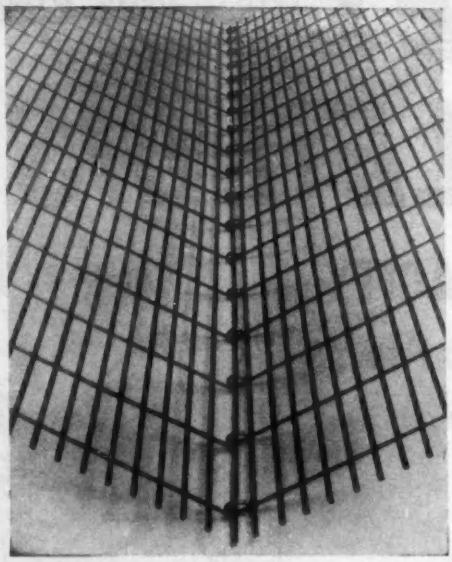

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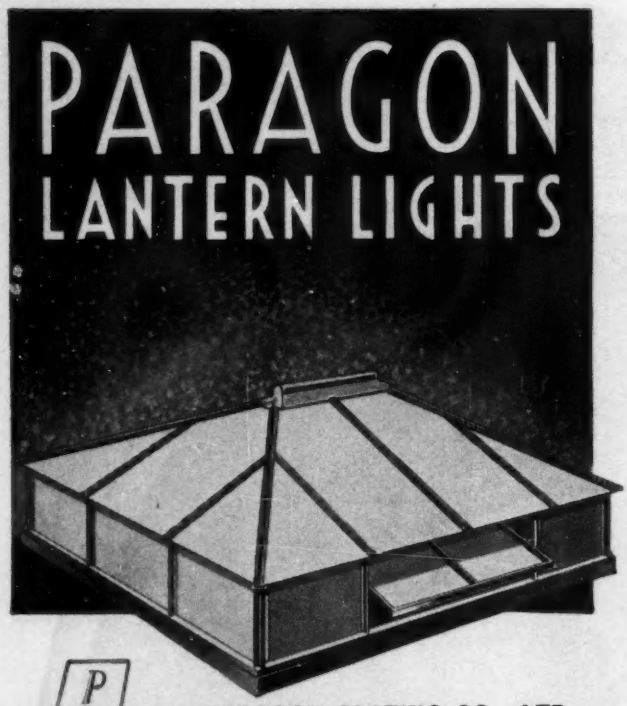

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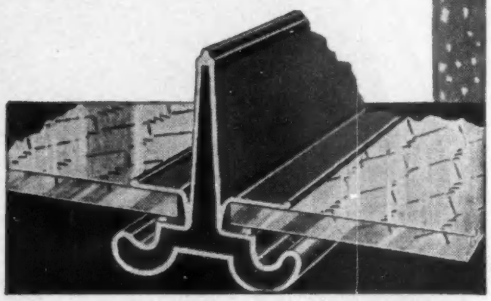

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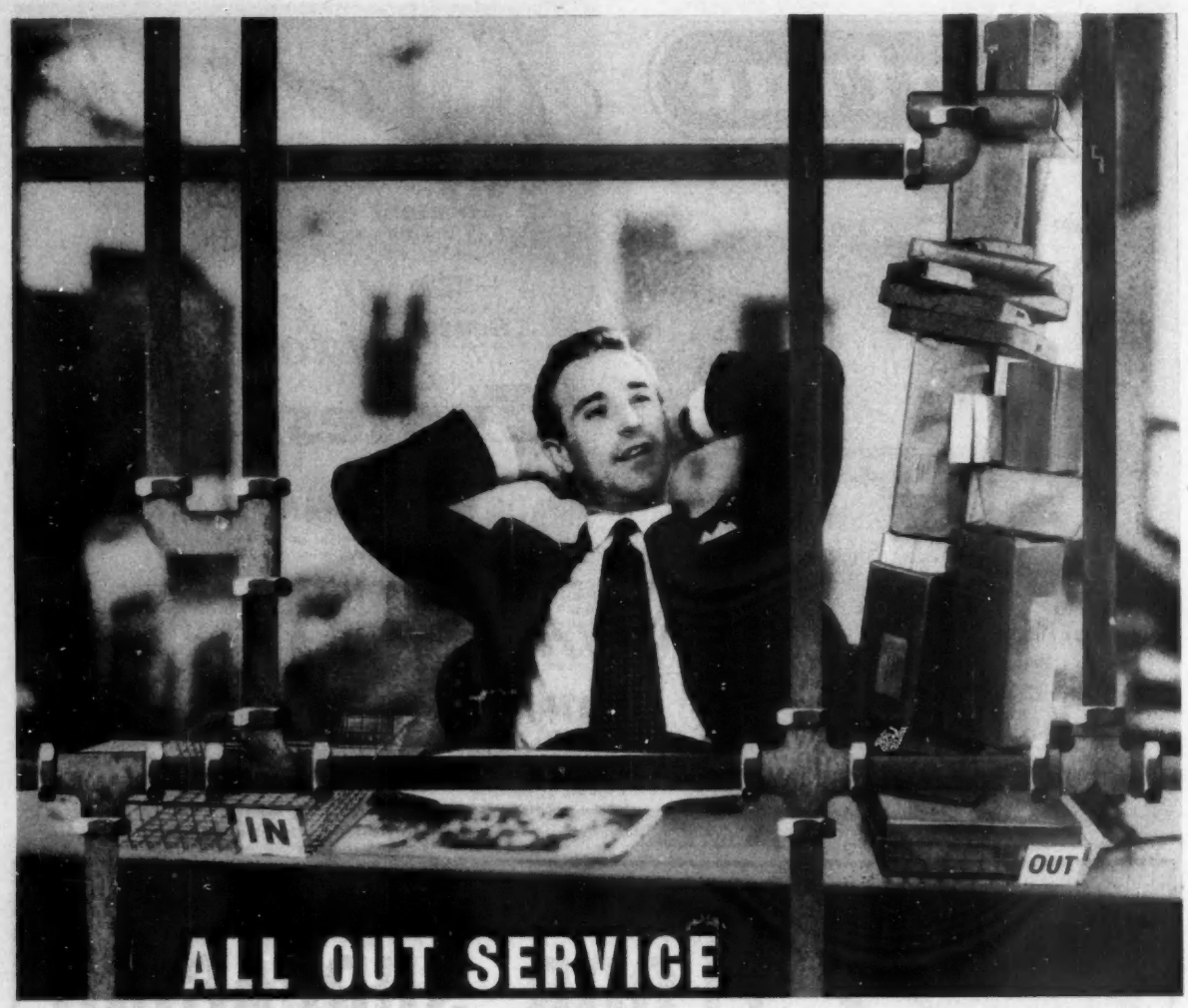


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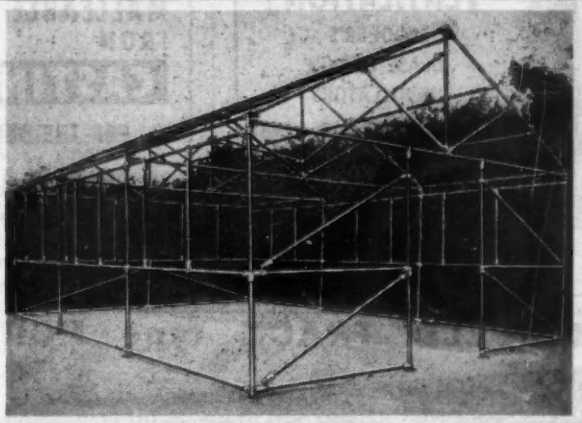

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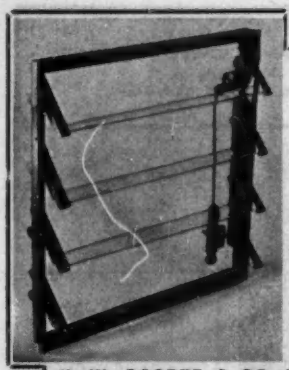

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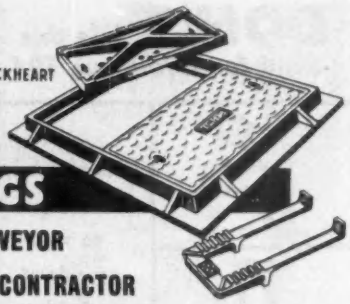

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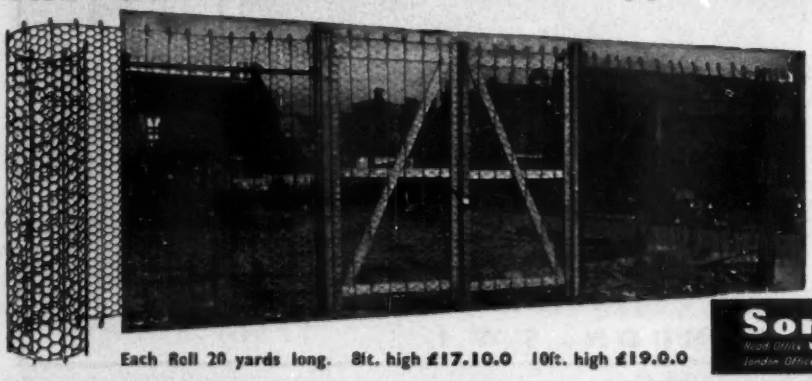

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# THE BUILDER NEW YEAR NUMBER

## JANUARY 15th 1960

This issue retained for reference the whole year round will, in addition to the usual features and special articles, contain a selection of current architecture.

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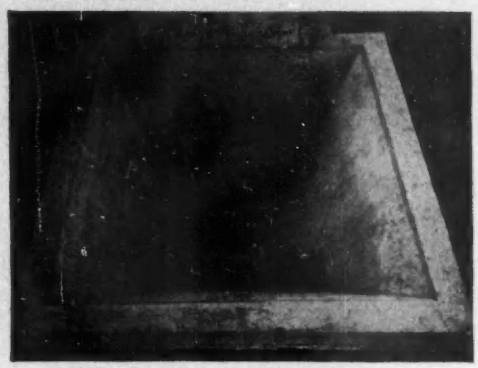

*Completed pit surrounded by 9′ 6″ head of subsoil water.*

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**ARCHITECT**
*Fred C. Levitt, L.R.I.B.A., Chartered Architect, Commerce House, Biggleswade, Beds.*

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# The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

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## Colleges of Further Education

THE MINISTRY OF EDUCATION have issued a third edition of Bulletin No. 5 on New Colleges of Further Education which was originally published in August, 1951. It is natural that a third edition should have been found necessary in order to include revisions arising out of the increasing experience in this field. Nevertheless, this can only be regarded as an interim measure, as the whole of Section V, 'Design,' remains unrevised until the fruits of experience are available from a project to be undertaken by the Development Group at the Ministry.

These revisions are a further expression of the Ministry's successful policy in pursuing economies through a closer examination of requirements—a policy which in Primary and Secondary schools, as is well known, has resulted in the rising costs of school building being kept well below corresponding rising national building costs. From the architect's point of view, it is significant that educationists and administrators are advised to consult the architect during the compilation of the schedule of accommodation, in order to make use of the architect's experience, rather than to present to him a hard and fast brief which would be difficult to amend later. Likewise, a carrot is offered to the architect in that economies in planning circulation areas need not be added to teaching areas, which are already scheduled at their right size but can either be used in improving the general standard of building or in adding to communal spaces.

It is, perhaps, in administrative and communal areas that the bulletin sees the greatest need for clear thinking at the present time. Warnings are given against the habit of including assembly halls, gymnasia, and the like, in schedules of accommodation simply because they have always been so included. Emphasis is placed on the need to analyse very carefully the different requirements of each college and its different users. This applies, for instance, in the case of provision for drama, where it is suggested that a hall seating, say, 200-300 persons may be of greater value than the normal larger size of hall, and at the same time would not make unfair demands on the limited accommodation available for the students' own recreation for the sake of serving the community at large. The same thinking is evident in considering the assembly of large numbers of students on a relatively few occasions, such as a prize-day, and it is suggested that it might be preferable to hold such functions outside the college. Likewise, in considering the case of physical education and games, the suggestion is made that a larger area in a 'dutch barn' type of building built to more spartan standards without heating, etc., may be preferable to the usual type of gymnasium. In general, however, within the total allowance

for communal areas, education authorities and their architects are encouraged to plan with as much freedom as possible.

From the revisions on the educational side, there is evidence of greater emphasis on higher technology and research, and it is significant that libraries are now treated as forming part of teaching rather than communal accommodation. A new feature in deciding the details of teaching accommodation to be provided, which must necessarily vary considerably between different colleges, is the recommendation of a room-loading exercise, which should be carried out in some detail in order to extract the maximum advantage out of each space provided.

Detailed recommendations show evidence of fruits of experience. For instance, the areas of some teaching accommodation are determined by equipment rather than numbers using them; more generous areas are provided for dining rooms and kitchens; lifts are considered in greater detail, not forgetting provision for invalid or crippled passengers; accommodation for wet clothing is mentioned; the problems of boiler houses in early stages of development are recognised; the likely demand for playing fields; and even, although perhaps mentioned rather indirectly, the provision of parking space for students' cars.

In sum, therefore, it can be said that this further edition of a valuable bulletin shows greater realism in outlining the problems and a greater study of the possible economies in solving them. It remains to add in the next edition the benefit of the architect's experience in designing what is one of the most complicated types of building with which he is called upon to deal.

## The Caravan Problem

THERE ARE 150,000 people, not gypsies or vagrants, living in caravan homes in England and Wales, according to a fact-finding investigation conducted at the request of the Minister of Housing and Local Government by Sir Arton Wilson, KBE, CB, formerly Permanent Secretary of the Minister of Pensions. The problem presented is thoroughly explored in his report, recently issued by the Ministry.* There are about 13,000 plots of land with caravans on them, some 10,000 occupied only by single vans or pairs, the remaining 3,000 consisting of multiple sites accommodating anything from three to 300 caravans each. They are concentrated mainly in rural or semi-rural areas close to the more rapidly expanding industrial centres, particularly Greater London, but there are many in favoured retirement districts.

A small minority of sites are well located, attractive and well organised, a small minority unpleasant, insanitary and ill-run, while the rest leave something to be desired as a physical and social environment for people's homes. Of the 60,000 residential caravans about 38,000 are on sites for which planning permission, usually with conditions, has been given; about 12,000 have 'existing use' rights; and about 10,000 are on sites which are apparently located or operated in contravention of the Town and Country Planning Act.

It is significant that most of the caravan dwellers (about 80 per cent) hope one day to move into houses or flats, and live in caravans because they cannot get dwellings in the right places or on the right terms, or because of their cheapness, convenience or mobility. Part of the answer to this problem is obviously to build more houses. In the meantime, it is clear from this report that, in the interests of public health and planning, the local authorities' powers of control and enforcement need to be considerably strengthened.

* Caravans as Homes, by Sir Arton Wilson, KBE, CB, with a Survey of Residential Caravan Life, by P. G. Gray and Elizabeth A. Parr. HMSO, price 5s.

# Notes of the Week

Architects for Hospitals; Civil Engineering Wages; Vacancy at Nottingham; Exhibition in New York

### Architects for Hospitals

MODESTY PERHAPS has been responsible for a lack of support of the view expressed by Mr. S. W. Milburn ('The Builder' of December 11) that the Minister of Health, in formulating his programme of new hospital building, might well encourage regional hospital boards to engage the services of architects in private practice instead of seeking to build up the staffs of the boards themselves. It would be easy to give the names of a dozen or more private firms with considerable experience in hospital design and fully capable of carrying through the largest projects. Why, then, expand the staffs of the regional boards, probably at the expense of those in private practice?

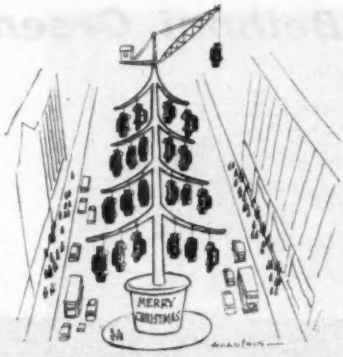
We now put forward the suggestion that the Minister of Health should consider compiling a panel of private firms who have had experience in hospital work with, additionally, some new firms which have a good record in post-war design of a general nature; these architects might well attend an extended course which could be arranged jointly by the Ministry and the Nuffield Foundation so that they could be brought up-to-date with planning ideas current both at home and abroad. This might prove the best way both of bringing new thought into the hospital planning field and of supplementing the excellent work being done by the regional boards.

* * *

AS MR. MILBURN POINTED OUT, this plan was carried out with marked success in the school building programme immediately after the war. It in no way detracts from his argument that the credit for building up a panel of private architects to supplement official departments really belongs to Kent whose then County Architect, Mr. Sidney Loweth, worked out a scheme of appointment and supervisory control that operated economically and efficiently. We should like to see Mr. Loweth putting the same principles into practice as a member of a Regional Hospital Board.

### Civil Engineering Wages

MR. JACK ARMSTRONG, operatives' secretary of the Civil Engineering Construction Conciliation Board, takes up (in a letter printed on page 936) points made in our leading article of December 11. He is concerned to say that the advice there given to the Federation of Civil Engineering Contractors (the employers' side of the Conciliation Board), that they should not in the interests of the building public get out of step with the hours and wages agreements negotiated by the National Joint Council for the Building Industry, is gratuitous as the CECCB and the NJC 'are two distinct bodies dealing with two separate and distinct industries.' Separate bodies no doubt, but not separate industries; the builders' labourer services both industries, and Mr. Armstrong cannot be unaware that any arrangement come to on hours that




*Parking scheme for Christmas shopping*

brings the labourer's week of 44 hours below the parity with the building craftsman already negotiated to take effect in October next must be productive of unrest on every building site in Britain.

Mr. Armstrong speaks of the 'interests of our industry which . . . warrant a shorter working week.' Is he quite candid, knowing well that with hours in civil engineering being at present well over 50 per week the real effect of a 40-hour official week would be an extra four hours at overtime rates? We are not opposed to any step which improves the status of the building worker, but we must repeat that such step should be in consonance with other parallel agreements and be taken against the general industrial background.

**Exhibition in New York**

IT IS GOOD NEWS that the United Kingdom is to put on a British Exhibition in New York in June next, to which the Queen will lend her patronage and President Eisenhower co-patronage. Simultaneously a British Military Tournament and Tattoo will be held, the site for which will be Madison Square Garden. The exhibition will occupy the Coliseum, where the biggest exhibit will be the British Government display, to be designed by James Gardner and John Lansdell, who were associated in the interior design of Brussells' pavilions. Their scheme is shown on this page; it will house national prestige exhibits and a display of British consumer goods and engineering products. An English inn is also to be reproduced. British Overseas Fairs, Ltd., who will be responsible for the Exhibition, are to be congratulated on their enterprise. We should like to be there to see the result as also to see what Mr. Sol Hurok, the American impresario, makes of the job of presenting the Tattoo.

**Vacancy at Nottingham ?**

THE PRESIDENT OF THE RIBA certainly gets around. Speaking to the members of the Notts, Derby and Lincoln Society of Architects on December 11, Mr. Spence put in a strong word for the appointment by the Nottingham Corporation of a City Architect. Nottinghamshire County Council, he pointed out, had been invited to design, through the county architect, Mr. W. D. Lacey, the school exhibit at the Milan Triennale next year, and he hoped that the Corporation would follow the county's example and create an official post.

We shall hope that the corporation will now consider the matter; it must be one of the few important municipalities that has no architect.

**Party at the Ritz**

ARCHITECTS, builders, estate developers and others had an opportunity of comparing notes and getting to know each other better under unusually pleasant circumstances at the cocktail party given by Sir John Burnet, Tait, Wilson and Partners at the Ritz Hotel on December 16, when guests were received by Mr. Gordon Tait and other members of this long-established firm of architects.

The party was held on the day that the inquiry into the Piccadilly scheme opened, which was a lively topic of conversation. Although it might be thought, from recent figures of the volume of new construction work, that architects and builders 'have never had it so good,' the Piccadilly inquiry, disregarding the merits or otherwise of a particular scheme, brought home the nagging and frustrating delays that architects and developers still have to face, in London in particular, before their projects can be translated into reality on the site. There is no doubt that if this much publicised inquiry does anything to bring to the attention of the authorities the need for speeding up the processes involved in obtaining permission to build it will not have been in vain, whatever immediate other result it achieves. However, not even a 172-ft. high advertisement could darken spirits in the presence of such good company, and guests no doubt departed reinforced in the belief that difficulties are only there to be overcome.

**National Buildings Record**

THE EIGHTEENTH annual report (1958-59) of the National Buildings Record states that in the past year there was some diminution in the number of large and important country houses threatened with demolition. The number of cases appearing in the Agenda of the Advisory Committee to the Minister of Housing and Local Government, however, for the most part concerning the smaller buildings of historic and architectural interest, which are even more valuable, shows no sign of slackening. The policy of reconditioning old properties is said to be steadily gaining ground and 'wherever practicable it deserves strong support.'

The report includes photographic illustrations of several fine buildings unhappily demolished during the past year, among them an early eighteenth-century house in Bath, Shavington Hall, Shropshire (dating from 1685), and Holyrood House, Spalding, Lincs (part Tudor, part Georgian), as well as some charming groups of old cottages threatened with demolition in various parts of the country. The number of accessions received by the NBR in the past year was 10,149 items, bringing the total of its collections up to 500,906. The report is issued from 31 Chester-terrace, Regent's Park, London, NW1.

**The College of Technologists**

DETAILED arrangements for the award of 'Member of The College of Technologists' (MCT) are announced in a memorandum issued by the National Council for Technological Awards. This award follows the Diploma in Technology and is given to those who complete a substantial programme of work of value to industry carried on jointly in industry and a college. Copies of the memorandum from The College at 9 Cavendish-square, London, W1.

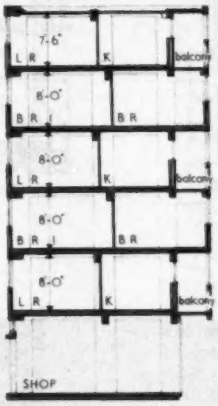
*The British Exhibition to be held in New York from June 10 to 26 is to be under the joint patronage of Her Majesty the Queen and President Eisenhower. The exhibition has full Government backing and will include a £100,000 prestige exhibit. Shown above are artists' impressions of two of the rooms which will be used for the display of British products. The co-ordinating designers are James Gardner, CBE, and John Lansdell, OBE*

# Flats, Shops and Market Place, Bethnal Green

YORKE, ROSENBERG & MARDALL, architects
J. S. P. VULLIAMY, architect in charge
CLARKE, NICHOLLS & MARCEL, structural engineers
DONALD SMITH, SEYMOUR & RODLEY, heating engineers
GEE, WALKER & SLATER LTD., general contractor

*South face of block 4*

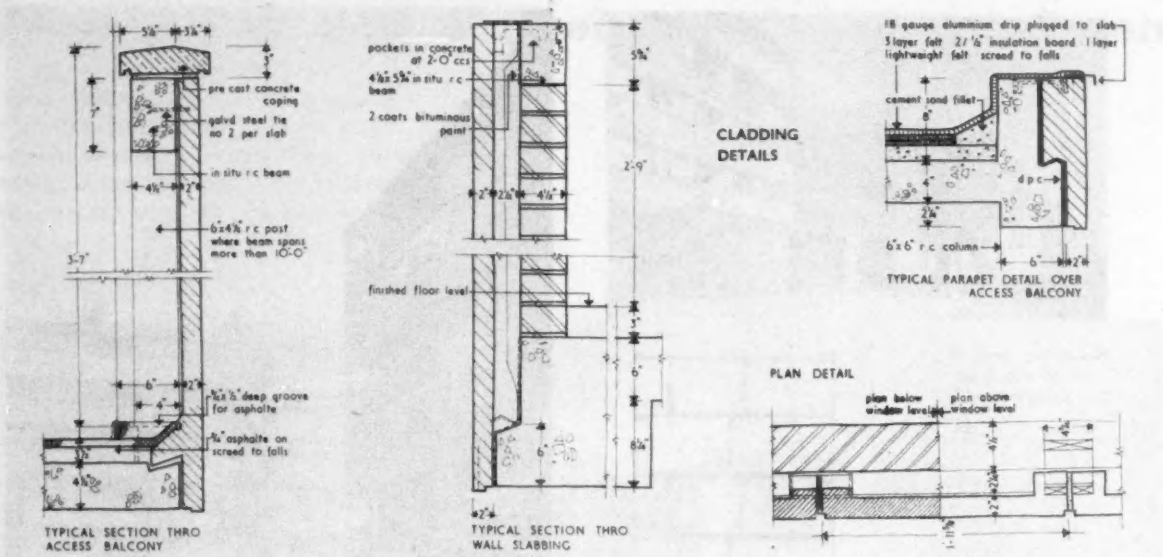
*Blocks 3 and 4 with block 5 in the foreground*



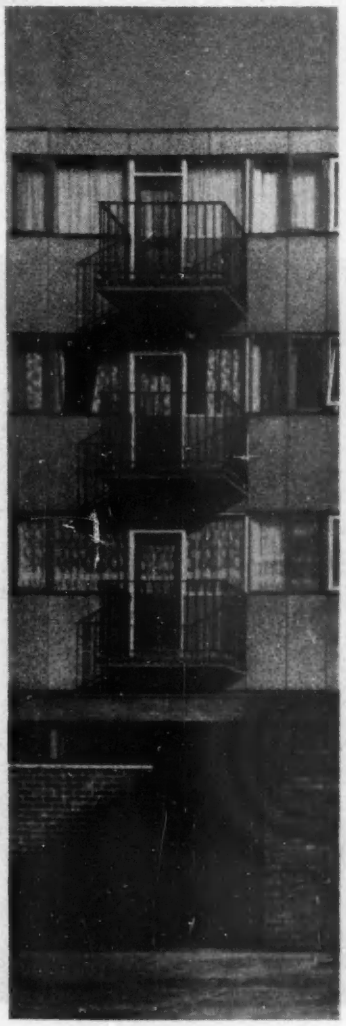

*Typical section*
*Scale: 1 in. = 24 ft.*

*The market place, looking towards block 3*

*Entrance to shop stores at the south side of block 5*




*Typical balcony treatment*



THIS COMPREHENSIVE DEVELOPMENT of the Roman Road area in Bethnal Green, forms part of the Borough Council's slum clearance programme. The scheme consists of 8 blocks containing 112 flats, which are accommodated at first floor level and upwards. At ground level, 6 of the blocks contain 27 shops, a Public House, and a branch Post Office. The ground floors of the two remaining blocks are occupied by barrow stores for the street traders using the open market. The incorporation of a Market Square in the scheme was necessitated primarily by the need to remove stall holders from Roman Road, which was becoming impossibly congested. Owing to the necessity for re-housing people whose shops or houses were being demolished, the programme was carried out in two stages.

The blocks have a reinforced concrete framework with precast concrete slab facings on the principal elevations, of exposed Derbyshire Spar and Cragean Green stone. Flank walls are faced in Second London Stocks, and infilling walls to access balconies are in Uxbridge Flint Lime bricks. EJMA timber windows are used throughout the scheme, and generally horizontally pivoted to facilitate cleaning.

Shopfronts were provided by the Council for those tenants that wished to use them. The fronts have terrazzo pilasters and stall risers, with simple mahogany doors and window frames.

The Market Place is paved with standard hydraulically pressed slabs bedded on a 3 in. concrete overlay. Standings for barrow stalls are demarcated by panels of exposed aggregate concrete. Subdivisions between the standings and surrounding footpaths are made with granite sets. The stall holders obtain a supply of electricity for illumination from socket outlets mounted halfway up the columns of the electric lamp standards.

There is a district heating and hot water scheme which is supplied from a boiler house situated in an adjacent block to the south of the scheme (designed by Fry, Drew, Drake and Lasdun, architects). Radiators are provided in the living room and the principal bedroom, and a metered hot water supply is available to all tenants.

The first stage was begun in 1956, and the second stage was completed in July, 1959.

**Sub-contractors:**

*Piling*, The Cementation Co., Ltd.; *lifts*, Express Lift Co., Ltd.; *heating and hot water installation*, Matthew Hall Ltd.; *electrical installation*, London Electricity Board; *gas installation*, North Thames Gas Board; *roofing*, William Briggs & Son Ltd.; *tiling*, Tatham Ltd.; *shopfitting*, N. H. Barnes & Co. Ltd.; *tanking*, Neuchatel Asphalte Co. Ltd.

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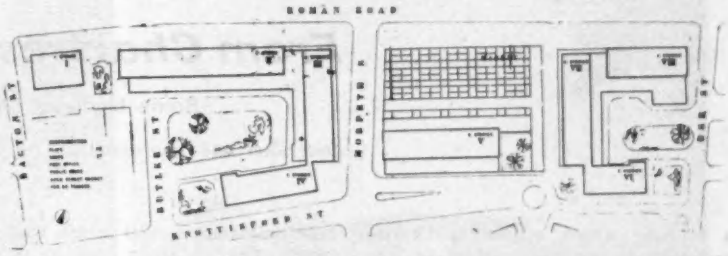
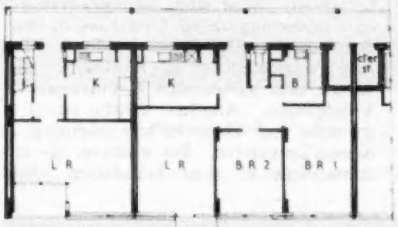
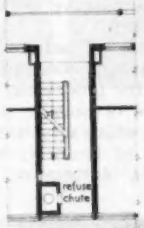
## *Flats and Shops at Bethnal Green*



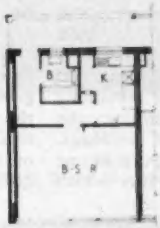




MAISONETTE
BLOCK II FIRST FLOOR PLAN

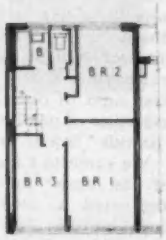
2 BEDROOM FLAT
SCALE 1"=24'-0"




STAIR WELL




TYPICAL BED SITTER




TYPICAL MAISONETTE
FIRST FLOOR

*Entrance to shop stores, south face of block 2*

# From Chartres to Bordeaux

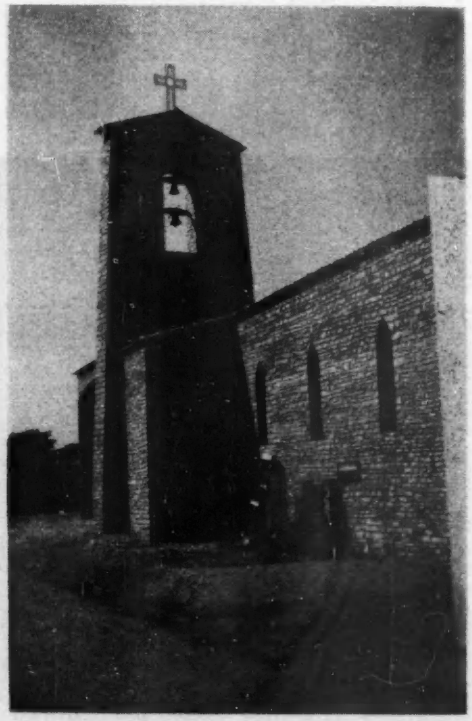
## Some Medieval 'New Towns'

*Described and photographed by Our Special Correspondent*

A JOURNEY WHICH BEGINS at Chartres and ends at Bordeaux—taking in Touraine, the Charente Maritime (in part, singularly like the Broads country) and finally the Dordogne—would have interest enough, one might think, without having thrown in for good measure a first sight of one of the finest remaining examples of medieval town-planning—the 'bastide' towns to the east of Bordeaux.

We came to Chartres from Paris in one of the smart new Diesel trains which deposited us and our bicycles on the platform at Chartres in remarkably short time. The Cathedral itself was worth waiting fifty years to see; no more need be said to those who know it, for those who do not, there are hardly words to describe the jewel-like quality of its glass. On then to Tours, where a good deal of not very good new building is rising on sites devastated by fire-bombs, and beyond to Richelieu. In a remarkable state of preservation, this 17th-century little walled town would seem hardly to have been touched since Martin Briggs, also a believer in exploration on bicycle, first visited it over 20 years ago. Exquisite in proportion and scale, Richelieu still holds lessons for the town-planner in the relationship of open space to building.

*Part of Richelieu's wall at Brouage*



*A new church at l'Isle d'Oleron*

A succession of charming little towns, among them Lenclôitre (with a superb but little known 11th-century church), St. Maixent and Niort, greeted us on the way to our immediate destination—Marennes. Marennes has been described as a church entirely surrounded by oysters, and indeed the little town, which looks out to l'Isle d'Oleron and the Atlantic, largely lives by, if not on its 'ostreiculture.' The only notable building, the church apart, is the Sous-Prefecture with its fine doorway. Near by is Brouage, medieval centre of the European salt trade round which Richelieu hastily flung a stone wall as defence against the English. Land reclamation has left this interesting town marooned amid the marshes.

En route for the 'bastides' we passed through Cognac (a disappointing town given over to the processing, though not the distillation, of brandy; perhaps visitors next year, which sees the bicentenary of the House of Hennessy may take a different view), Barbezieux, St. Aulais (where a swim before breakfast in the little town's piscine on the banks of the Dronne lent enchantment to the prospect of coffee and croissants) and so on to Bergerac. Bergerac is a town as charming as its name, sitting on a limpid Dordogne which is crossed by a magnificent bridge. Whether the municipality will be able to retain the old part of the town, steeped in history as in filth, is questionable. It is a place for the artist, as for the historian.

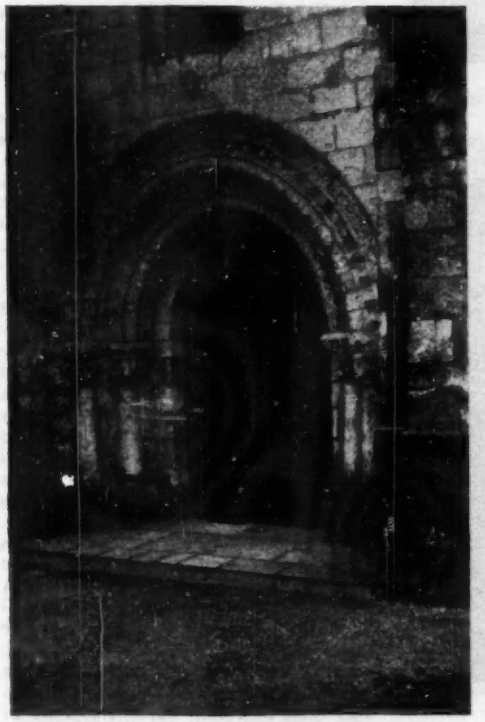
Bergerac is not a 'bastide.' These walled towns, of which originally there were a large number, now list about 30, though some of them have been largely obliterated in subsequent expansions. They were built in the 13th century, often as strongholds by the French or English kings, sometimes as a form of property speculation by the barons, and peopled largely by those who, taking advantage of a loosening-up of feudalism in Bordeaux and other cities, sought a more free existence; it is noticeable that several bear names such as Villeneuve or Villefranche. Another, a little ahead of its time and 12-to-the-acre planning, is named Sauveterre. But whatever the circumstances of their foundation, these towns have one thing in common: a gridiron plan surrounded save in special circumstances (such as Domme, which stands on a hill) by a wall.

Ste. Foy-la-Grande, the first 'bastide' that we came to, has an almost square plan, with the customary gridiron layout. The walls have largely disappeared, though fragments of them can be found, often incorporated as the sides of houses. Founded by Alphonse de Poitiers in 1255, Ste. Foy's principal features are the old 'couverts' or arcades which are to north and east of the Place de la Mairie. Interesting also are the towered houses of the Templars, as old as the town itself. Westwards, towards Bordeaux, the route to Libourne runs largely along the Dor-

*Market hall, Bordeaux*

*Single-storey house, Bordeaux*

*Porch of 11th-century church, Lenclôitre*

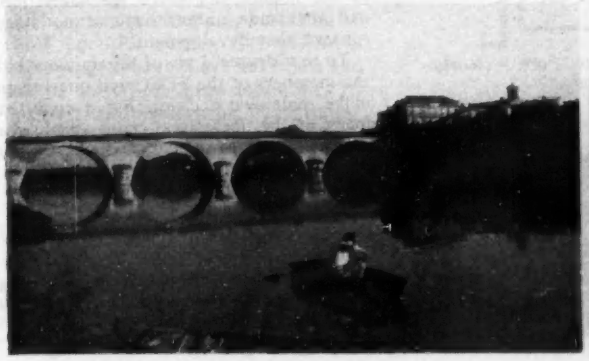


*Doorway to the Sous-Prefecture, Marennes*

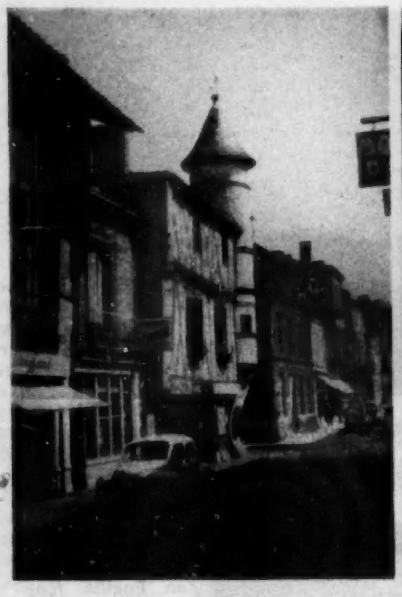
dogne river and through Castillon. Libourne itself is an English foundation built by Roger de Leyburn, seneschal of Guyenne. Its fortifications were repaired by the Black Prince in 1360. Expansion over the intervening centuries (Libourne is a centre of the wine trade) has caused the original plan to become largely obliterated though traces remain.

These 'bastide' towns, historically and architecturally interesting, are fully worth a visit. The Dordogne itself has some of the most attractive country in Aquitaine, the food is excellent and the wines admirable.

*Old bridge across the Dordogne at Bergerac*



*New bridge across the Vienne at l'Ile Bouchard*



*Templars' house, Ste. Foy-la-Grande*

*An archway in Richelieu, Touraine*

*Part of the arcaded 'couverts' in the Place de la Mairie, Ste. Foy-la-Grande, one of the Bastide towns on the river Dordogne*

Bordeaux itself, on the magnificent Garonne, has little new building in its centre, but the architectural sophistication which one might expect in a large city is seen in several buildings on the outskirts, notably a simple, clean-lined market hall on the Libourne road. Houses, mostly the product of the architect-builder, are cliché-ridden and generally rather dreadful, but here and there, as in a house near Bordeaux illustrated, there is a glimpse of quality. I.M.L.

*Village name-signs are clearly lettered*

## Letter to The Editor

**'A Claim to Resist'**

SIR,—The 'first leader' in your issue of December 11 calls for serious comment. Whilst it is granted that you state 'there is no wish to prejudice the workers' claims either for a shorter working week or for an increase of wage rates,' this is precisely what your leader does; irrespective of the merit of the claim (which your leader writer has not seen), the attempt is to condition the mind of the members of the Federation of Civil Engineering Contractors who, in my opinion, will make an objective examination of the claim and make *their own* decision as has been done in previous claims.

The considerations in your leader appear to be based entirely upon what the NJC for the Building Industry has decided on the shorter working week issue, and warns against any unilateral action on the part of the civil engineering industry, because it might 'upset existing arrangements.' What are those 'existing arrangements?': as Joint Secretary of the Civil Engineering Conciliation Board perhaps your leader writer will tell me.

Evidently it is not known that the NJCs for the Building Industry and the Civil Engineering Construction Conciliation Board are two distinct and separate bodies dealing with two separate and distinct industries, and the development of the Joint Industrial Agreements has not been in accordance with some 'existing arrangements,' e.g. on March 7, 1951, the district classifications of 1a, 2 and 2a were eliminated from the wages structure in the civil engineering industry; the districts so classified became reclassified to Class 1. This did not happen in the building industry. Again, the 44-hour week throughout England, Wales and Scotland was established in the civil engineering industry in 1947; whereas this establishment will take place in October, 1960, in the building industry.

The distinction in the wage basis is again quite pronounced. Whereas in the building industry the basis is the Grade A craftsman's hourly rate, that of the civil engineering industry is based upon the Class I navvy's or labourer's hourly rate.

Finally there is a great difference between the two employers' organisations. The NFBTE is in the main composed of a larger number of small contractors with very little mechanisation. The FCEC is in the main a small number of large contractors who have developed the industry to the highest degree of mechanisation, and the trade unions have at no stage resisted that development.

To that degree, I am of the opinion that the members of the FCEC will once again make their own decision, based upon the merit of the operatives' claim and in the interests of our industry which, in our opinion, warrant a shorter working week.

JACK ARMSTRONG,

Operatives' Secretary,
CEC Conciliation Board.

Comment on Mr. Armstrong's letter will be found under "Notes of the Week' on page 929. Other correspondence is held over until next week.—Ed.

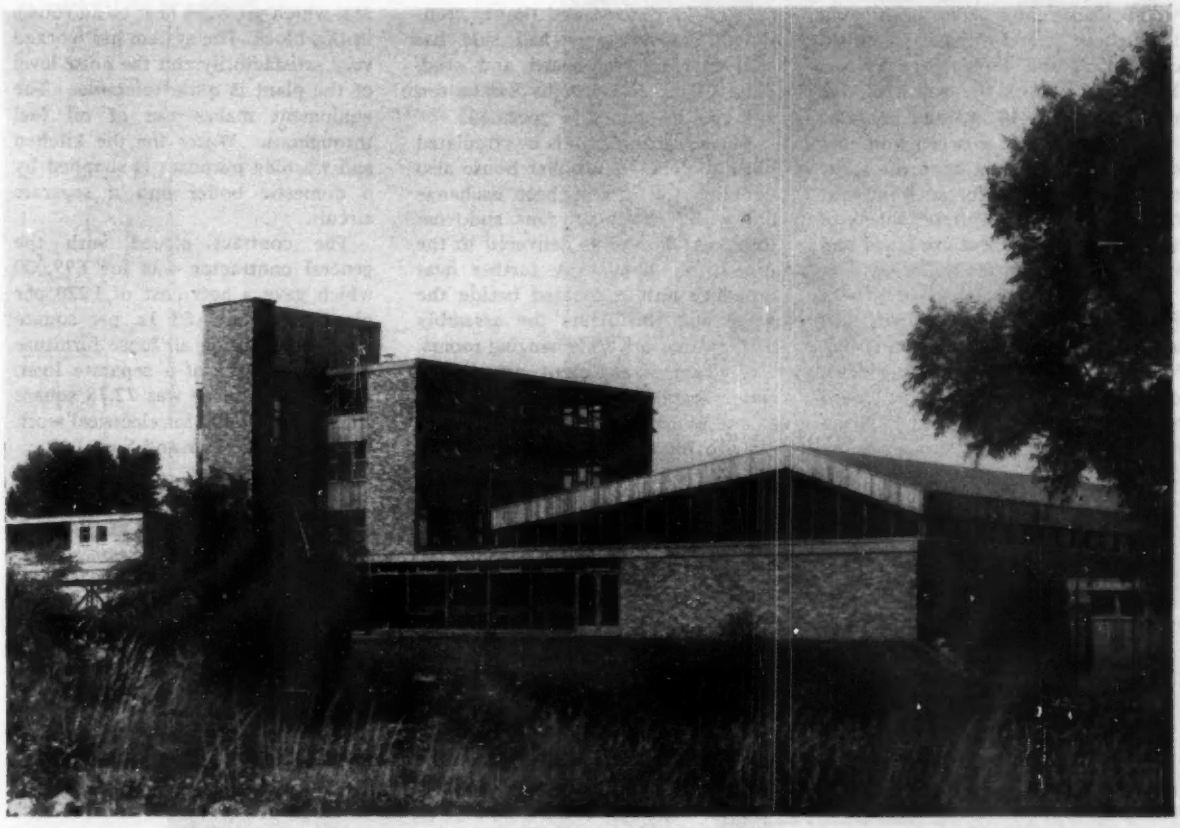
# Littlemore Grammar School, Oxford

For Oxfordshire County Council

G. R. HUTTON, FRIBA, FRICS, county architect

H. J. RIDGE & PARTNERS, quantity surveyors

J. SMALLBONE & SONS, LTD., general contractor

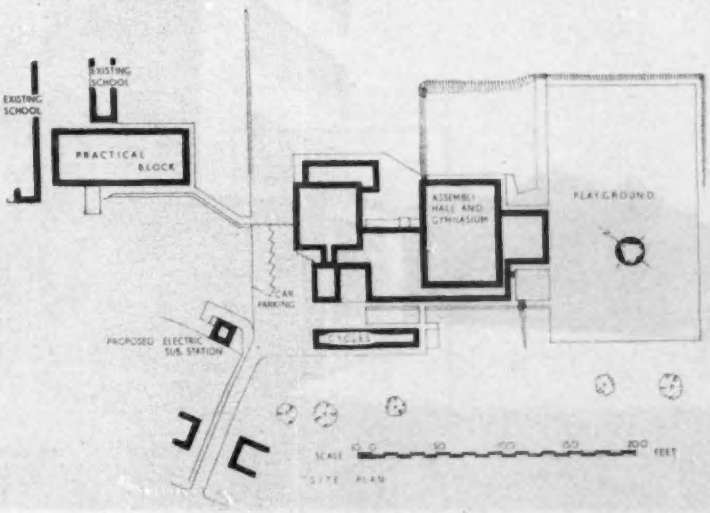


*Assembly hall and classroom block from south*

LITTLEMORE SCHOOL provides accommodation for 360 boys and girls, and has been designed so that the practical block can be shared with an existing secondary modern school on an adjoining site.

The plan is compact, resulting in short corridor runs. The assembly hall and gymnasium are adjacent, and can be united for large assemblies by means of sliding screens. The dining area is a raised platform along two sides of the assembly hall. Classrooms are grouped in a four-storey block.

The structure is steel framed, with prestressed concrete floor beams and timber curtain wall cladding. Foundations are continuous concrete slabs to ensure even loading on a sandy sub-soil containing a high per-



centage of water. The window walling is framed in afrormosia, with western red cedar cladding backed by Stramit and asbestos sheeting.

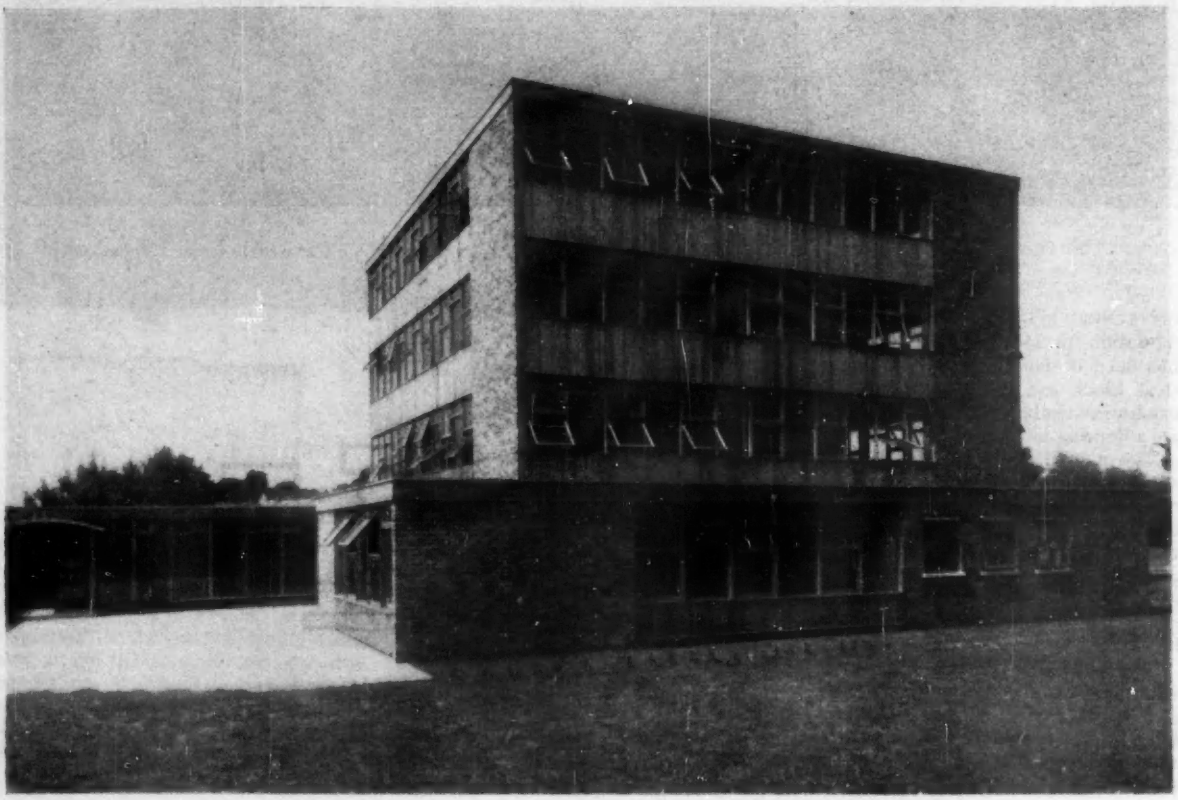
The roof structure is somewhat unusual in that Canadian type plywood deck units have been used throughout and have proved economical and satisfactory in use. Each roof unit is the width of one plywood sheet, 48 in., and contains four joists varying between 6 in. and 8 in. thick depending upon the span; the maximum span for an 8 in. joist being 26 ft. The plywood sheets of ¼ in. or ½ in. thickness are glued and nailed at 2 in. centres on joists.

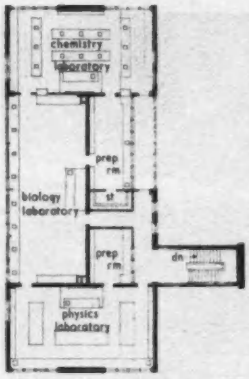
All softwood was treated with Protim. Roofing is in 3-layer felt, and all rain water pipes are internal. Partitions are 9 in. concrete blocks, or timber studding and fibre board with glass fibre insulation. Flooring is hardwood strip in the assembly area, cork tiles in the library, and pvc tiles elsewhere. Sliding doors between hall and gymnasium have a welded tee iron framework, mounted on ball-bearing trolleys. The gymnasium side is faced with acoustic tiles on hardboard and timber studding. The assembly hall side has wallpaper on fibreboard and studding. Each leaf weighs half a ton and can be manually operated.

The heating system is by circulated hot air. The main boiler house also contains the largest heat exchange unit with its attendant fans, and from this point hot air is delivered to the four-storey block. A further heat exchange unit is located beside the stage and this heats the assembly hall, gymnasium and changing rooms, etc. This arrangement permits an easier sectional use of the building, as one boiler and the heat exchanger can provide heat for the hall and the corridors leading to it while the rest of the heat exchangers are out of commission. An underground duct takes hot water from the central boiler to the practical block which has a further heat exchange unit and fan, which provides heat to all rooms in this block. The system has worked very satisfactorily and the noise level of the plant is quite tolerable. The equipment makes use of oil fuel throughout. Water for the kitchen and washing purposes is supplied by a domestic boiler and a separate circuit.

The contract placed with the general contractor was for £99,000 which gave a nett cost of £220 per place, and about £3 1s. per square foot. In addition all loose furniture was the subject of a separate loan. The area per place was 72.78 square feet. Consultants for electrical work were A. W. Sclater and Son, Ltd.

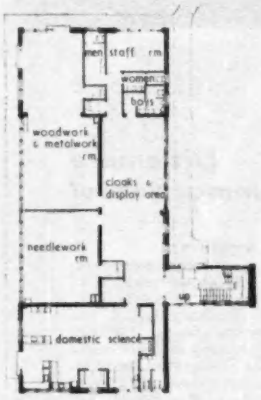
*Four-storey teaching block, and headmaster's and division rooms. To the left is a bridged entrance over the biology pool*



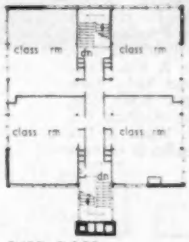



FIRST FLOOR

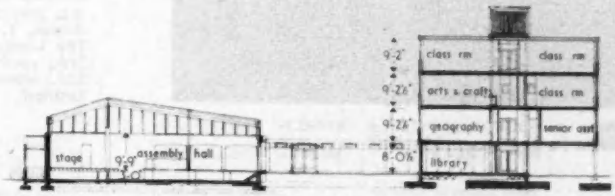
*A typical staircase, constructed in afrormosia on steel stringers*



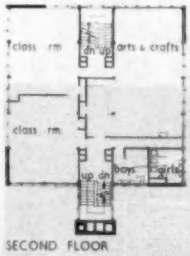

GROUND FLOOR
PRACTICAL BLOCK



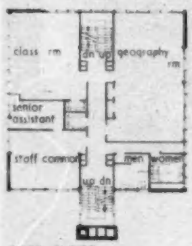

THIRD FLOOR




SECTION AA




SECOND FLOOR

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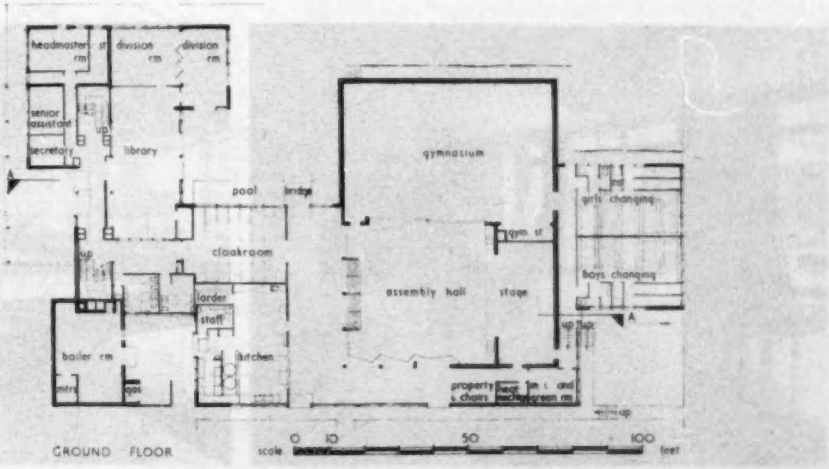



GROUND FLOOR

*Interiors of the assembly hall and gymnasium which can be united*

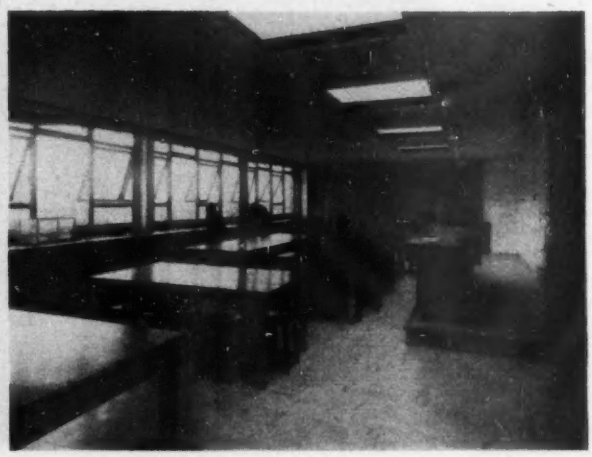
*Raised dining area in the assembly hall*

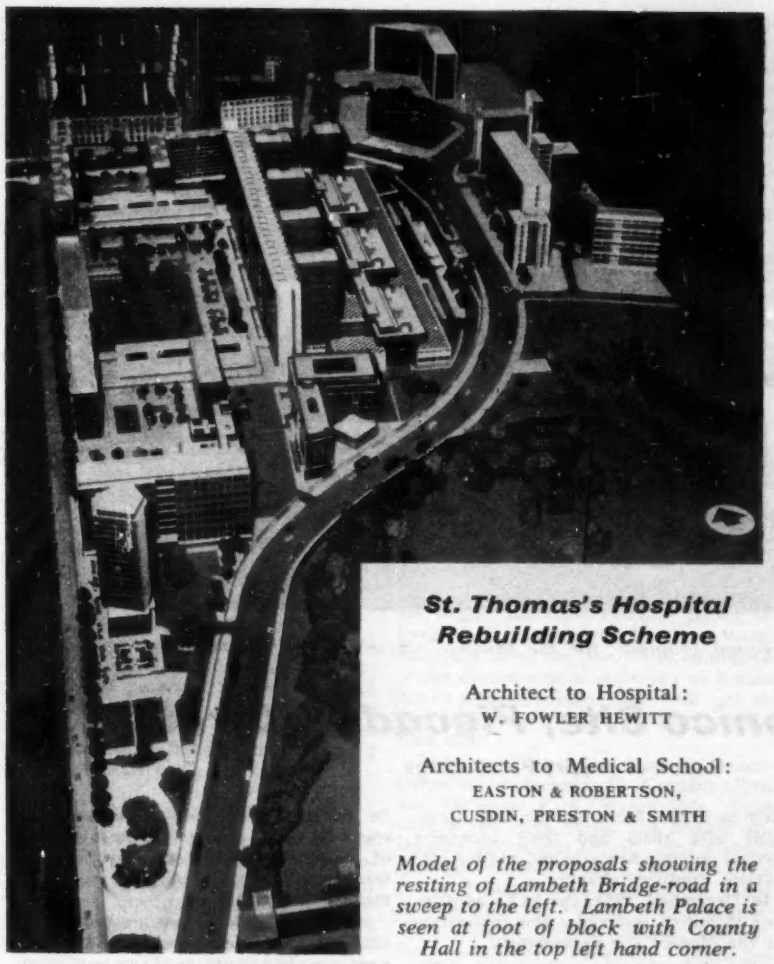
## Littlemore Grammar School

**Sub-contractors & Suppliers:**

*Site investigation and foundation reinforcement*, G. K. N. Reinforcements Ltd.; *premixed concrete*, Premix Concrete Ltd.; *structural steelwork*, T. Partridge & Co. Ltd.; *suspended concrete floors*, Pierhead Engineering Division; *heating and hot water installation*, Afos Ltd.; *electrical installation*, Lindars Electrical Contractors Ltd.; *gas installation*, Southern Gas Board; *felt roof covering*, F. McNeill & Co. Ltd.; *timber floors*, Hollis Bros. Ltd.; *Teleflex window operating, gear*, Teleflex Products Ltd.; *special window fittings*, Wilkes Berger Engineering Co. Ltd.; *doors*, F. Hills & Sons Ltd.; *metal door frames*, Fredk Braby & Co. Ltd.; *door furniture*, J. Gibbons Ltd.; *sanitary fittings*, Stephenson & Co. Ltd.; *w.c. partitions*, Flexo Plywood Ltd.; *glass domes*, T. & W. Ide Ltd.; *pvc floor tiles*, The Limmer & Trinidad Lake Asphalt Co. Ltd.; *cork tile floors*, S. H. Ware & Co. Ltd.; *laboratory furniture*, Griffin & George Limited.

*Interiors of the library and biology laboratory*





## St. Thomas's Hospital Rebuilding Scheme

Architect to Hospital:
W. FOWLER HEWITT

Architects to Medical School:
EASTON & ROBERTSON,
CUSDIN, PRESTON & SMITH

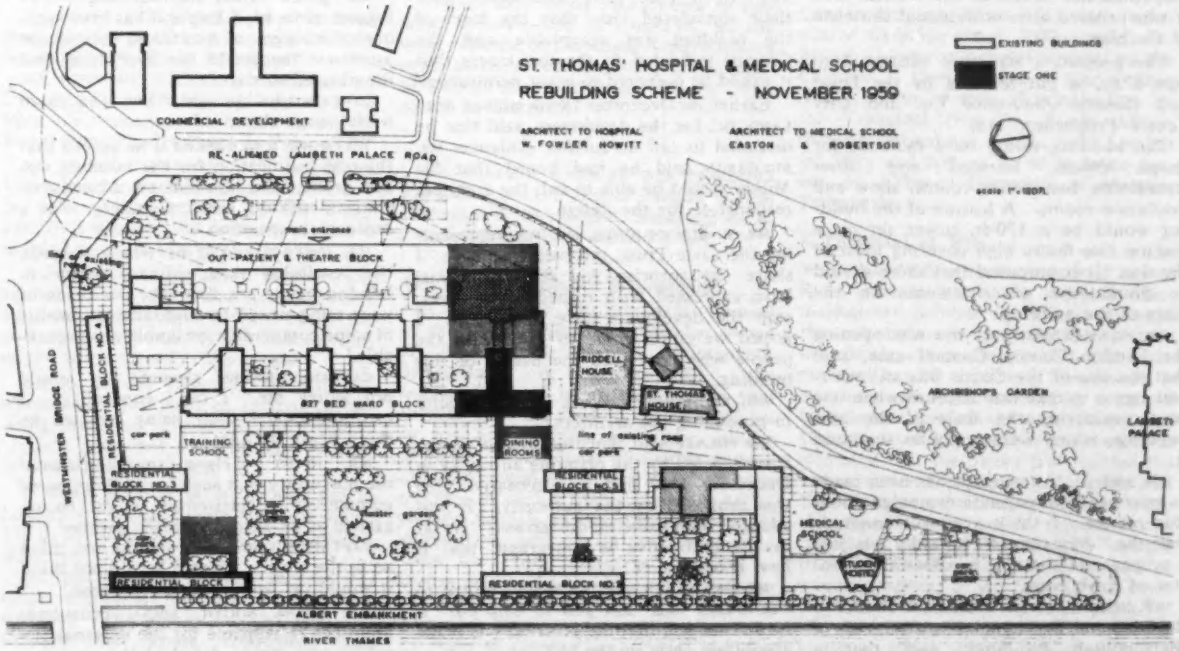
*Model of the proposals showing the resiting of Lambeth Bridge-road in a sweep to the left. Lambeth Palace is seen at foot of block with County Hall in the top left hand corner.*

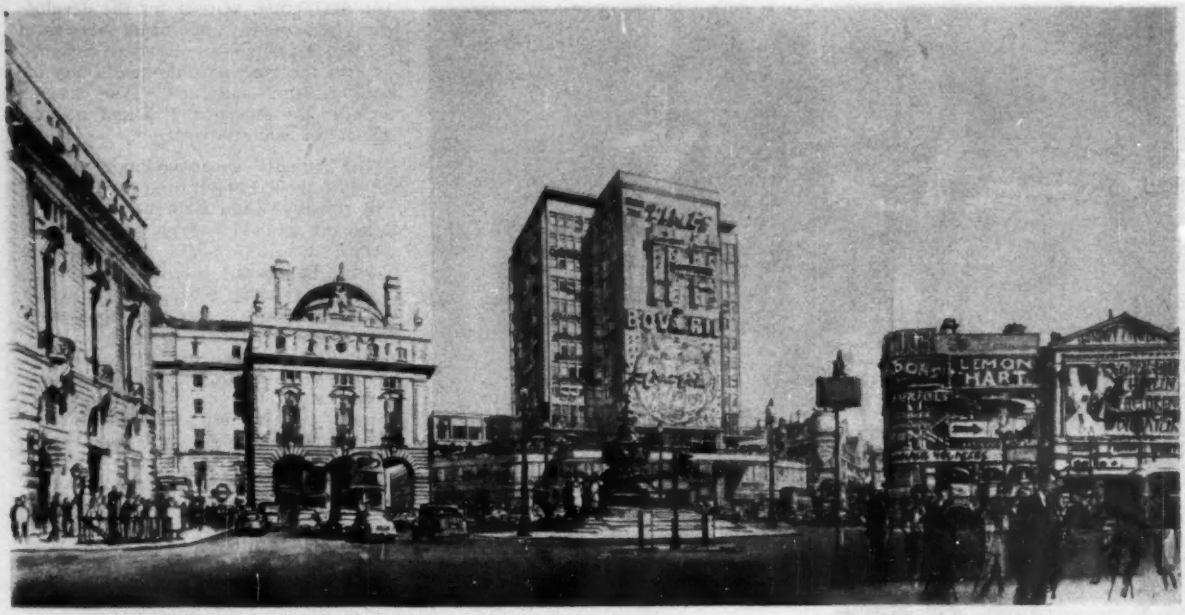
THE REBUILDING SCHEME for the development and concentration of all sections of the hospital on one site has been designed to give the best possible conditions for both patients and staff. The scheme includes the provision of a new medical school for 400 students.

The patients' accommodation will be set back about 120 yd. from the river and will consist of the main ward block of basement and 11 storeys with a roof terrace (overall height approximately 150 ft.), linked to a parallel 4-storey out-patient and theatre block. All the wards will have a clear view over a landscaped open space towards the river. The 8-storey residential blocks are placed nearer the river at each end and will be connected to the patients' accommodation by low buildings and colonnades. The ward block contains 8 floors each containing four wards. Laboratories are planned on the fifth and eighth floors. Horizontal communication is provided by four towers each containing a staircase and a bank of lifts.

The construction will be in reinforced concrete and the aim throughout is to provide large spaces free of structural walls in order to give greater internal flexibility necessitated by the constant changes of medical technique. The first phase, which contains about a quarter of the accommodation, is to cost approximately £2½m.

The proposed new school will consist of buildings for all departments, each divided into a teaching block and a research block. There will be a library, a lecture theatre with seating for 400, workshops and common rooms. A hall of residence will accommodate 117 students and staff and a basement car-park will accommodate 147 cars.






*Piccadilly Circus, showing (centre) the revised proposal for the Monico site which is the subject of the Inquiry*

# The Monico Site, Piccadilly Circus

## Report of Inquiry Proceedings

THE PROPOSED new Piccadilly Circus would be about three-quarters the size of Trafalgar Square, MR. R. D. STEWART-BROWN, QC, told a public inquiry in London on December 18. It was the third day of the inquiry, which is being held by Mr. C. D. Buchanan for the Ministry of Housing and Local Government. The inquiry concerns an application to develop the north side of Piccadilly Circus—a site known as the Monico site. It was ordered after widespread criticism of the plan.

The project, a structure estimated to cost £7m., is put forward by the Legal and General Assurance Co. and City Centre Properties, Ltd.

The building would have facilities for shops, offices, licensed and other restaurants, banqueting rooms, show and exhibition rooms. A feature of the building would be a 170-ft. tower set on a podium two floors high covering most of the site. It is proposed that there should be illuminated advertisements on the front of the building.

MR. STEWART-BROWN, who was opening the London County Council case, said that the size of the Circus was an important factor to take into account when one was considering the scale of the new buildings which were going to surround it.

He added: 'An attempt has been made to institute a propaganda campaign about this matter. I think you will conclude that the "Monster of Piccadilly" is just a propaganda stunt as much as the monster of Loch Ness.'

MR. HUBERT BENNETT, FRIBA, architect to the LCC and Superintending Architect of Metropolitan Buildings, said that a scheme for the Monico site originally submitted by the developers was rejected early in 1958. After that he had discussions with them and their architects about a possible new scheme, and his suggestions produced changes.

In December, 1958, the LCC, as planning authority, received a new application for the Monico site development.

'We made our own appreciation of the scheme,' said Mr. Bennett. 'It was in accord with all planning requirements. The Royal Fine Art Commission gave their considered view that the form of the building was acceptable, and the Council indicated to the developers that it would be prepared to grant permission.'

Earlier, on December 18 SIR MILNER HOLLAND, QC, for the developers, said that he intended to call no further evidence. MR. BUCHANAN said he had hoped that Sir Milner would be able to call the architect responsible for the design.

MR. F. ELWYN JONES, QC, MP, representing the Civic Trust, intervened to say: 'I share the surprise you (the Inspector) have expressed with regard to the decision the developers have arrived at. I hoped we could come to grips with the people who conceived the design of this building.'

MR. BUCHANAN: 'What is the difficulty in producing the architect?'

SIR MILNER said that the original design was repected by the planning authority in December 1957 and an alternative plan was proposed by the authority. It was adopted with some modifications. 'As far as the basic idea is concerned, that is how it began.'

MR. BUCHANAN said he would return to the matter and 'ask you to help out' if he did not feel that the position was made absolutely clear by the LCC.

On December 17, CAPTAIN CLIFFORD HIGGINS, an illuminant consultant, said he thought it would be excellent if a crane to carry advertising sings on top of the building could be search-lit. It would be 'even better' if it could be made to revolve.

When MR. ELWYN JONES asked if the building was 'the answer to the illuminant consultant's prayer,' CAPTAIN HIGGINS said: 'Exactly, I have been waiting for it for years.'

MR. JONES called the building: 'The biggest of its kind England has ever seen, one of its signs of greatness, the biggest aspidistra the world has ever seen, and illuminated at that.'

CAPTAIN HIGGINS said, 'Yes, you could write songs about it.'

When MR. JONES asked if he agreed that the real justification for the building was the profit from illuminated advertising, CAPTAIN HIGGINS said, 'Certainly, it is a business proposition.'

MR. JONES asked if he would concede the possibility that ordinary people in London might not like 'the obtrusion of your pungent, 60-ft. high advertisements of some commodity speakable or unspeakable.'

CAPTAIN HIGGINS replied: 'It would not worry me. I can't concede it. I can understand their being worried by there being no light.'

MR. JONES: 'Have you considered the possibility that such a vast illuminated commercial advertisement might be regarded as an affront to many people?'

CAPTAIN HIGGINS: 'I should not think so in the least.' He said he did not think it would be 'an alarming precedent.'

MR. FRANK BOOTH, ARIBA, consultant architect responsible for the external elevation and design detail of the proposed building, said he thought a restaurant terrace from which people could watch life

in the Circus below was one of the most important amenities of the development.

Mr. Booth was asked by MR. ELWYN JONES if he was consulted as to whether it was possible to 'marry' the proposed building with the proposed LCC plan for redeveloping Piccadilly Circus.

He replied: 'I came in when the building had been designed and it had been designed to fit the site and take its place properly in the overall plan. I think I might say both the architects and the LCC architects worked together as a team on this building.'

Asked about the problem of the 'Piccadilly pedestrian' MR. BOOTH said a big piece of land had been given over to the road, and he thought a 15-ft. wide pavement outside the building 'satisfactory.'

To a further question, he said he thought that if it was found that 'upper level pedestrian access' was required, it would not be impossible to put one on the proposed building.

When the inquiry opened on December 16, SIR HOWARD ROBERTSON P-RIBA, said he thought it would be 'quite hopeless' to have an upper level pedestrian pathway in Piccadilly Circus, although it was a good idea in building a new city.

He said he had personally wondered whether he would not be happier if the tower of the proposed building had one or two more storeys. 'It seems to me quite a classic conception to place a tower on a podium. I think it is nice and I think people are going to like it.'

### View from Buckingham Palace

Sir Howard said he agreed that although advertisements might be appropriate for Piccadilly Circus, they might not be too appropriate for the environs of Buckingham Palace or St. James's Park.

Replying to Mr. Elwyn Jones, Sir Howard added: 'I can gather the drift of your remarks. Can it be seen from Buckingham Palace?'.

MR. JONES: 'If it could be seen from there would it affect your view of the desirability of 170-ft. hoardings?'

SIR HOWARD: 'I think it would in that I want to be extremely well advised as to what the repercussions might be on the Royal Family in Buckingham Palace.'

MR. JONES: 'Naturally you would be. Quite apart from the regard which would be paid to the privacy of the Royal Family, I suppose the ordinary citizen is entitled to a bit of privacy, too?'

SIR HOWARD: 'I don't know.' He agreed that there were places where advertisement hoardings were often gay and attractive and others where they might be anathema to the scene.

Earlier in his evidence, Sir Howard, when asked how high he thought advertising hoardings should be, had replied: 'Height unlimited, I would say. As high as a tall building might be.'

If there were to be high buildings in London, he thought there could be a sign 150 to 200 ft. high 'without being terribly offensive.'

He said that the original scheme was quite interesting and that the building was the right shape for the site. 'I thought the whole conception was ingenious in plan and interesting, with great possibilities.'

Regarding illuminated signs, he said they announced that Piccadilly was a gateway to theatreland, and he thought there would be a considerable outcry if they were removed.

'They are one of the pleasures of London, especially to the Commonwealth and overseas. Even the Americans like them.'

SIR MILNER HOLLAND, in his opening statement, had said that photographs of the model of the building, which had had wide publicity, had not at all accurately represented what was intended.

The proposal provided for one unitary development on a complete island site and would provide a very substantial addition to car parking facilities. Office accommodation in the new building would be severely restricted.

Referring to criticism of the proposed building by the Royal Fine Art Commission, Sir Milner said, 'If, and this seems not unlikely, the Royal Fine Art Commission have yielded to lobbying or have yielded to the apparent unpopularity in some quarters—not universal by any means—of this building, of which they are so conscious that they did not condemn it in February, then I would invite the Minister to pay no attention to what they have said.'

The inquiry was continued on December 21.

## News of the Week

### RA Winter Exhibition, 1960

THE THEME of the RA Winter Exhibition is the collecting of Italian Art by the British from the time of Charles I to today. It contains 650 works and is the largest and most valuable display to have been assembled by the Royal Academy since the war. The exhibition shows the enormous resources of Italian art in Britain, which could still not be matched by any other country except Italy itself.

The selection has been made by a committee which includes Sir Kenneth Clark and Professor E. K. Waterhouse. They have drawn from public and private collections throughout Britain. Her Majesty The Queen has lent more than 80 works.

The Italian artists represented range in date from the 14th to 18th centuries. They include Duccio, Simone Martini, Fra Angelico, Botticelli, Leonardo, Michelangelo, Raphael, Giovanni Bellini, Titian, Tiepolo and most of the other leading Masters.

To provide a fitting background for this great accumulation of treasures, all the main galleries of the Royal Academy have been entirely redecorated. The exhibition opens to the public on January 2 and closes on March 6.

* * *

SIR CHARLES WHEELER was re-elected President of the Royal Academy on December 8. Mr. John R. Skeaping, ARA, a sculptor, has been elected a RA.

### ARCUK Maintenance Scholarships

THE ARCHITECTS' REGISTRATION Council of the United Kingdom offer for award in June, 1960, certain Maintenance Scholarships in Architecture. The Scholarships will be renewable from year to year until the student has finished his or her School training. They will be available for Students of British nationality who could not otherwise afford such training to enable them to attend Architectural Schools approved by the Council. Applications will not be considered if no steps have been taken by students to secure such other assistance as may be available. Scholarships will not be granted to Students who will be less than 17 years of age on October 1 of the year in which the examination is taken. Particulars and forms of application may be obtained from The Secretary to the Board of Architectural Education, Architects' Registration Council of the United Kingdom, 68 Portland-place, London, W1. The closing date for the receipt of applications is February 1, next.

### Gifts for Commonwealth Institute

WHEN the architects' designs for the new Commonwealth Institute building, London, were made public last June, mention was made that the copper to cover the roof would be the gift of the Northern Rhodesia Chamber of Mines. The amount involved is 25 tons, valued at over £5,000.

Since this announcement other most welcome gestures of a similar kind have been made. They are: The free conversion of the Rhodesian copper into 49,000 sq. ft. of sheet copper, by the Enfield Rolling Mills, Ltd., Middlesex; the entire requirement of aluminium (up to 20 tons) by Aluminium, Ltd., of Canada, through Alcan (UK), Ltd. (value nearly £4,000); about 2,000 sq. ft. of British Guiana greenheart timber, by the Colonial Development Corporation (£400); 40 to 50 tons of vermiculite, by the Transvaal Ore Co., South Africa, through Mandoval, Ltd., of London (£1,500); and 800 sq. ft. of muhuhu timber, by Akberali Hassanali, of Mombo, Tanganyika.

### A Packetful at Rye

WHEN, LAST SUMMER, the owner of one of Rye's ancient houses in cobbled Mermaid-street painted the stucco between the oak beams a turquoise blue, there were loud protests both within and without the Council chamber. The colour, it was held, was quite unsuitable; it should have been either off-white or cream. The Council, at its September meeting, was informed that the owner had painted the house without permission, and decided that she must submit an application, when they would order her to repaint it the traditional colour. But the lady insisted that she *had* received permission, and, at a recent meeting of the Council, the Town Clerk confirmed that a former official of the Council had, indeed, told her she could go ahead with the painting.

The Council was told that the Ministry of Housing and Local Government had said that the house, the 'Old Hospital,' was a building of considerable architectural and historic interest—it was a hospital for war-wounded in the days of Napoleon—and that turquoise blue was a most unsuitable colour.

The Council decided that the turquoise blue may remain for three years, after which the Council 'would have the opportunity of requesting the owner to consider repainting the building in a more appropriate colour.'

### Surbiton Considers a Dog's Life

ALTHOUGH AN APPLICATION was not, in this case, necessary, members of Surbiton Council discussed a proposed new home for a dog, on December 14. The buildings and town planning committee had earlier assessed the plans for suitable accommodation for the dog. The kennel was of brick, 6 ft. by 11 ft., and it had a window. It was recommended that the application be approved and the council gave its consent after members had satisfied themselves that the dog's creature comforts were also catered for.

Cllr. W. S. Mutimer needed to be assured on several points in this connection. For example, he wished to know that the committee was satisfied on available amenities such as the number of trees in the vicinity. Ald. G. W. Dew, chairman of the buildings and town planning committee, gave every assurance on these questions.

### H. L. Childe Retires

THE HIGH ESTEEM in which Mr. H. L. Childe is held by the reinforced concrete engineering world and by his colleagues of the technical Press was made clear when a representative gathering of his friends met in the Café Royal on December 17 to mark his retirement after 38 years as managing editor of Concrete Publications, Ltd. Particular points made by the company included references to Mr. Childe's outstanding ability as an editor and to the complete integrity which had been a characteristic of his professional life. Mr. Frederick Snow, CBE, who took the chair, referred especially to the humanity which Mr. Childe had always displayed, particularly in the help he gave to young men, while other speakers stressed the contribution he had made to British contracting overseas through the hundreds of thousands of technical books produced by him and sold in every country in the world. We join in wishing Mr. Childe a long, happy and busy retirement. His successor is Mr. C. E. Reynolds.

### 'Building Matters'

THREE EXPERTS will discuss underfloor heating in 'Building Matters' on December 29 (Network Three). They are Richard Eve, ARIBA; J. B. Dick, a heating expert from the Building Research Station; and Dr. T. Bedford, OBE, late of the Medical Research Council. R. F. Weaire, chairman of the Electrical Floor Warming Association, will answer some of their points. In the same programme Edward Mills, FRIBA, will talk about some new technical books.

The programme on January 5 will be an international one and will reflect overseas developments and problems. Donald Holms will introduce a series of recorded comments from different countries: Australia, South Africa, Sweden, Switzerland, the USA and USSR.

William Bryant will continue to give his weekly news round-up and there will be other short technical and topical items.

### Dachau Memorial

MISS GRIZEL NIVEN, sculptor, and Mr. Paul Clinton, architect, have been informed that their entry in an international competition for the design of a memorial to Dachau Nazi concentration camp victims has been adjudged one of the six best designs submitted. They have received a £100 prize. Their design consisted of an open square surrounded by a double wall of dark grey stone with a sculpture of two hands reaching for the sky in the centre. It is not known which of the designs will be used for the memorial.

### International Plastics Competition

THE RIV COMPANY (Societa' Officine di Villar Perosa), an associate company of the Italian Fiat organisation, has announced details for an international competition with a total of £9,000 in prizes. The competition, entries for which will be accepted up till April 15, is aimed at promoting the study and suitability of plastic compositions as supporting structures and their practical applications in architecture as panels and ornamentations, partitions for offices, flats and houses, bungalows, country schools, motels, and a wide variety of industrial uses where Plastirivmel (RIV's own product) is a predominant factor. Full details from RIV, Sezione Materie Plastiche, Corso Giambone, 33, Turin, Italy.

### Extensions to the Motorway

THE PROPOSED LINES of two further sections of the Birmingham-Lancaster motorway, totalling 43 miles, were published on December 18 by the Minister of Transport. The first is for 13 miles to link the 12-mile Lancaster by-pass with the Preston by-pass. The second extends the motorway some 30 miles southwards and eastwards from Dunston, passing between Wolverhampton, West Bromwich and Birmingham on the west and Walsall and Sutton Coldfield on the east. It then swings eastwards to follow the line of the Tame valley canal to within 2½ miles of the centre of Birmingham. Extensive bridging of canals, roads, rivers and railways will be required.

## Coming Events

*TUESDAY, DECEMBER 29*

BBC (NETWORK THREE). — 'Building Matters.' 7 p.m.

RIBA.—Christmas holiday lectures for children: 'The Rebuilding of Cities (1),' by Mr. P. E. A. Johnson-Marshall, FRIBA. 66 Portland-pl., W1. 3 p.m.

*WEDNESDAY, DECEMBER 30*

RIBA.—Christmas holiday lectures for children: 'The Rebuilding of Cities (2),' by Mr. P. E. A. Johnson-Marshall, FRIBA. 66 Portland-pl., W1. 3 p.m.

*SATURDAY, JANUARY 2*

ROYAL ACADEMY OF ARTS.—Winter Exhibition: 'Italian Art and Britain.' Burlington-hse., W1. Daily: 10-7 p.m.; Suns.: 10-6 p.m. (until March 6).

### Appointment of Secretary

MR. A. B. HARMAN, BSC(ENG), AMICE, has been appointed secretary of the Reinforced Concrete Association. Since 1951 he has been employed in the central laboratory of George Wimpey and Co., Ltd., in charge of the concrete section, and as a senior engineer in the advisory group. Mr. Harman will take up his duties on January 11. Mr. R. V. Chate, who has been secretary of the Association since its foundation in 1932, will retire on that date but his services are being retained in an advisory capacity.

### Job for 'Coloured' Boy's Father

MR. NORMAN PRIDEAUX, principal of Prideaux and Co. (Builders), Ltd., Ewell, has offered a job to Mr. Frank Beecher, who adopted the little coloured boy, Tommy, in South Africa, and had to leave the country as a consequence. The family returned home by air on December 17. Before going to South Africa twelve years ago, Mr. Beecher was employed by Prideaux and Co.

### Staffordshire CC Appointments

MR. PERCY WOODCOCK, FRIBA, has been appointed County Architect to Staffordshire County Council. The appointment becomes effective from the end of June, 1960. He is 49. He succeeds Mr. A. C. H. Stillman, FRIBA. Mr. Stillman proposes to continue architectural work after his retirement in a consultative capacity.

Mr. G. H. Hobkinson, ARIBA, who is Senior Assistant County Architect, is recommended for promotion to Deputy County Architect.

## Professional Announcement

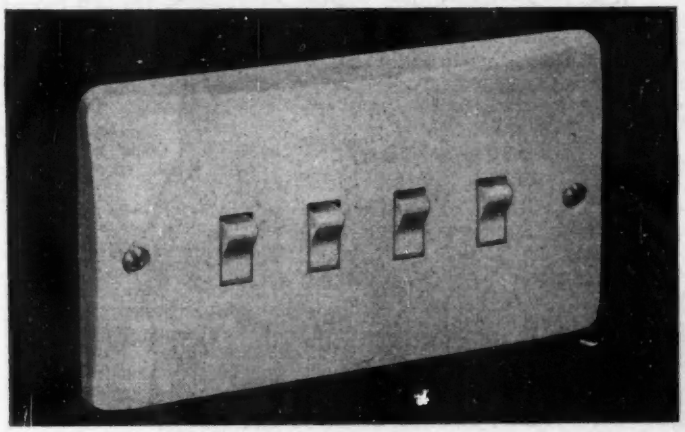
MESSRS. CLARENCE E. SMART AND PARTNERS, F/A/AIQS, quantity surveyors, of 42 Theobalds-road, London, WC1, have opened a branch office at Barclays Bank Chambers, St. Giles-square, Northampton (tele.: Northampton 3611). This office will be under the direction of MR. J. BOON, AIQS, one of the partners.

## A Hundred Years Ago

**From The Builder of December 24, 1859**

CHRISTMAS.—In a mercantile point of view, the architectural decoration of the shops and the tasteful display of the goods are of vast importance, and it is surprising how much attraction and effect can be given by the general arrangement, which may be considered similar to the composition of a picture, and by this harmonising and judicious foiling of colours. We believe that this talent is appreciated in trade, and that the Titians, Correggios, and Rembrandts of this art are highly esteemed. They are not so numerous as they might be. If men likely to be engaged in such trades were to study the theory of colours, and get a knowledge of art generally, they would find that knowledge a power, and a paying one too.

# NEWS from MK



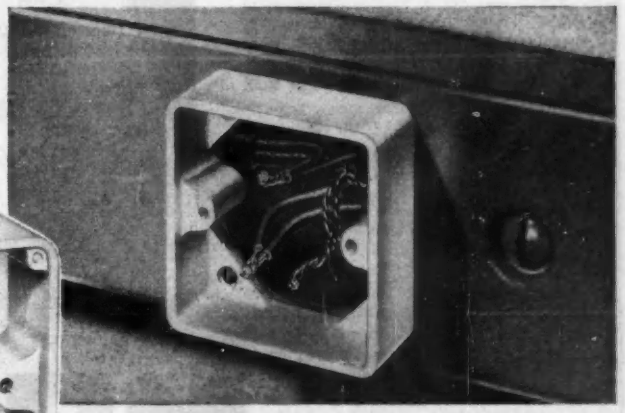
## A NEW 4-GANG PLATESWITCH

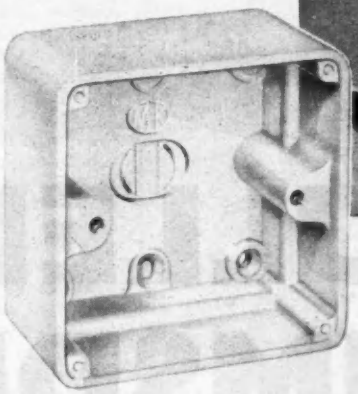
This new plaster-depth Plateswitch has 4¾" fixing centres and is therefore suitable for mounting in the existing 3-gang boxes. All the switches are two-way and may be wired either one-way or two-way. Moulded in brown or ivory, overall size 5¾" x 3¾".

**12/6** each Brown
**13/-** each Ivory

## *CONVERSION BOXES*

This simple and convenient method of mounting flush accessories with 2¾" fixing centres as surface units has been further extended by the introduction of two new designs. The moulded boxes have 4 BA tapped brass inserts. The two patterns shown have been developed for special purposes and have ample wiring room.





**LIST No. 2031**
This is a deep moulded box intended for use with DP switched fused spur-boxes.

**1/6** each Brown
**1/8** each Ivory

**LIST No. 2035 (above)** Designed for mounting on panels or trunking this moulded box requires only a simple circular cut-out for access at the back. It will accept any MK flush accessory with 2¾" fixing centres.

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old stepdaughter, Susan, who is a student at Kingston School of Art.

# Evening Standard

scenes in his wife, Evelyn, fabric painting and pottery, and there is a piece of sculpture by his 70-year-

**This major building contract secured by**

### Biggest hotel

A HOTEL with TV and radio in stereophonic sound for every room is to be built in Russell Square. The Walduck brothers, who jointly manage the family concern that already has eight hotels in the area, are calling it The President.

As well as the lavish sound and vision effects, each of the 450 rooms will have a bath. And below ground will be a garage for 80 cars.

"It will be the biggest post-war hotel in London" — Mr. Norman Walduck tells me. The President will have eight storeys and cost £1,000,000.

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# Architects' Registration Council of the United Kingdom

## Advertising Contrary to the Code of Professional Conduct

THE 111TH ORDINARY general meeting of the Architects' Registration Council of the United Kingdom was held at 66 Portland-place, W1, on December 16, under the chairmanship of Mr. Howard V. Lobb, CBE, FRIBA.

The Admission Committee recommended that 183 applicants be admitted to the register. Of these 176 qualified by examination under section 6(1)(c) of the Principal Act, 2 qualified under section 6(1)(d) and under regulation 26(a)(3), and 5 qualified under section 6(1)(d) and under regulation 26(a)(4). Of the 36 applications under regulation 26(b), 10 were admitted, 25 rejected and 1 was withdrawn. The committee's recommendations were duly adopted.

The report of the Board of Architectural Education, which was carried, recommended that the panel of examiners for 1960 be comprised of Mr. R. E. Enthoven, FRIBA, chairman, Mr. F. F. S. Bryson, Dr. E. S. Martin, Dr. G. I. Sinclair, and Mr. H. Lidbetter, FRIBA. The Board also recommended that, as in 1959, an upper income limit of £2,250, with £300 allowance in respect of each dependant, excluding the candidate be adopted in dealing with applications received for admission to the 1960 maintenance scholarship examination.

The Professional Purposes Committee reported that within recent months their attention had been drawn to a number of advertisements, published in the lay Press, in which building sites were offered for sale by architects on behalf of their clients. In these notices, persons interested were asked to apply to the architects, whose names, professional affixes, and office address were printed. The Committee wished to remind practising architects that such advertisements, whether inserted by themselves or by their clients were contrary to the Code and injurious to the standards of the profession.

The Committee advised the Council that there were special circumstances in the case of Mr. N. A. Peachey, who was removed from the Register for failing to pay his retention fee, to justify an exception being made to the three-years-rule. They recommended that he be reinstated. Applications were received from Mr. B. L. Prynn and Mr. M. E. Pickering for the restoration of their names to the Register at the expiry of the period of one month's disqualification imposed on them by the Council at their meeting on October 14. Both applications were granted.

# Training Courses in Concrete

## Cement and Concrete Association's Programme, 1960

BECAUSE they have been over-subscribed, the Cement and Concrete Association have decided to double the number of their training courses to be held at Wexham Springs, Bucks, in 1960, it was announced at a luncheon to the technical Press given by the Association, in London, on November 16.

The courses have become widely known among engineering firms and local authorities during the ten years that they have been held. More recently their range has been extended to subjects of special interest to architects as well.

The courses are designed to help practising engineers to keep abreast of the latest developments in concrete design and construction techniques, and the new and constantly developing uses of concrete. They give architects a fuller knowledge of the possibilities of the material, both structurally and as a finish, and they have been immensely valuable in widening and bringing up to date the practical and theoretical knowledge of supervisors and foremen. Doubling the number of courses will enable the Association to include in one year's session courses for various groups who previously had only one course in two or three years.

The courses last 4½ days, participants starting work on Monday morning, and finishing after lunch on Friday. Prospectuses and application forms from the Cement and Concrete Association, 52 Grosvenor-gardens, London, SW1.

**Provisional Programme, 1960**

| *Date of Course* | *Title of Course* |
|---|---|
| January 4—8 | Structural concrete, for engineers. |
| January 11—15 | |
| January 18—22 | Concrete technology, for engineers. |
| February 1—5 | |
| February 8—12 | *Concrete products. |
| February 15—19 | Design of prestressed and reinforced concrete bridges, for engineers. |
| February 22—26 | |
| February 29—March 4 | Concrete construction, for builders. |
| March 7—11 | |
| March 14—18 | Concrete construction for farms and farm buildings. |
| March 21—25 | Concrete and soil-cement roads, for supervisors. |
| March 28—April 1 | |
| April 4—8 | †Easter School for lecturers. |
| April 25—May 6 | |
| May 9—20 | ††Special course for NFBTE and FCEC. |
| May 23—June 3 | |
| June 13—17 | Structural concrete, for engineers. |
| June 20—24 | |
| June 27—July 1 | Soil-cement roads and airfields, for engineers. |
| July 4—8 | Concrete roads and airfields for engineers. |
| July 11—15 | Concrete for architects. |
| July 18—22 | |
| July 25—29 | †Summer School for lecturers. |
| September 12—16 | †Summer School for lecturers. |
| September 19—23 | Structural concrete, for engineers. |
| September 26—30 | |
| October 3—7 | |
| October 10—14 | |
| October 17—21 | |
| October 24—28 | Structural concrete, for supervisors. |
| October 31—November 4 | |
| November 7—11 | |
| November 14—18 | |
| November 21—25 | |
| November 28—December 2 | |
| December 5—9 | |

* Subscribing members only.
† By invitation.
†† Attendance by special arrangement only.

# The Final Report of the Central Land Board

## Twelve Disputed Cases

A REPORT on the work of the Central Land Board for the year 1958/59 has been published as a White Paper by the Ministry of Housing and Local Government (Cmd 908, HMSO, price 9d.). This completes a series of annual reports published by the Board, which was dissolved on April 1. Its remaining functions in England and Wales were transferred to the Minister of Housing and Local Government, and in Scotland to the Secretary of State.

The report shows that 116,738 applications for payment were made to the Board under Part 1 of the Town and Country Planning Act, 1954. Of these, 31,502 were found to be ineffective. Payments totalling £64,015,495, including interest, were made to 79,190 applicants. Nil payments were determined in 5,244 cases, and in 253 cases payments amounting to £118,324 were wholly set off against payments due to the Board.

In England and Wales 12 appeals against the Board's decisions were made to the Lands Tribunal, bringing the total up to 654 since the 1954 Act began to operate. 557 of these were withdrawn, and of the remainder 81 were dismissed and 10 allowed. There were no disputed cases in Scotland during the year. Certificates of the unexpended balance of established development value issued in England and Wales under section 48 (1) of the 1954 Act, amounted to 2,069, and 749 were issued under section 48 (2) to public authorities acquiring land under compulsory purchase powers. For Scotland the corresponding figures were 21 and 4.

It was the Board's duty to collect from public authorities, in respect of acquisitions of land before January 1, 1955, certain Part I payments made by the Board to the persons from whom the land was acquired. In 1958/59 £865,112 (including £31,121 in Scotland) was collected. This brings the total amount recovered to £15,213,734. The work of collecting development charges on development begun before November 18, 1952, continued and from the beginning of operation of the 1947 Act (July 1, 1948) until March 31, 1959, the amount received in cash or set off against claims was £26,146,272.

# North Western Educational Association

## The New Structure of the City and Guilds of London Courses

NEARLY FIFTY MEMBERS of the North Western Educational Association for the Building Industry were present on November 14 at Bolton Technical College to hear Mr. R. E. Costain, TD, FIOB, and HMI Mr. B. C. G. Stevens open the symposium on the new City and Guild Building Craft Courses. MR. STEVENS gave a very comprehensive outline of the scheme and warned those present that just as the flow of traffic on the roads is often impeded while repairs are in progress, so the process of revision of the courses would involve difficulties for all concerned. It was hoped that the new craft certificate, to be taken after three years of study, would be recognised more generally than the old Intermediate Certificate. The new structure was intended to step up the level of achievement of the average apprentice and to provide a straight road for the craftsman which would take him further in his own line without the need to retrace his tracks via the National Certificates in Building.

It was also hoped, said Mr. Stevens, that the new full technological certificate would provide direct entry into the first year of the Higher National Certificate Course. He then suggested that the meeting might consider the problems arising out of the initial stages of these courses under the main headings of Organisation and Teaching. He also suggested that certain advanced courses might be suitable for treatment on a cyclic basis without the necessity for progressive study.

MR. W. G. THORPE (in the chair), referring to the Foremanship aspects of the City and Guild structure, pointed out that the essential qualities of leadership were usually evident reasonably early in a boy's career and that employers might find an unbalance in the industry if all entrants to building trades were of a high academic standard. Large numbers were still required to work on the tools. An interesting discussion followed and it was clearly pointed out that the 'average' apprentice should obtain the new craft certificate by the age of 18 while nearly all should obtain it before they complete their apprenticeship. It was suggested that even if they were not very good at reading and writing the industry would know they were craftsmen if they obtained the craft certificate.

MR. COSTAIN (President of the Liverpool Regional Federation of Building Trades Employers) then presented the employers' view of the new structure. He was quite sure that recognition of the new certificate would be forthcoming in future. One of the difficulties facing both employers and teachers was the fact that boys largely looked upon the building industry as a last resort. The intake had recently declined to the stage where it is now producing insufficient craftsmen. With a minimum requirement of 15,000 or even 20,000 new entrants each year the present intake was 7,000. This would present difficulties when work expanded.

Too much emphasis was placed by certain employers on the cost to industry of technical college training. Mr. Costain pointed out that this was almost negligible when compared to the latent costs incurred with a shrinking labour force. The cost was, in fact, only 0.18 per cent of the total turnover of the industry. The Government should realise that the building industry, faced far too often with peaks and dales, should be protected. Greater interest by employers in training problems was essential and the new craft certificate should be a step towards promotion. The unions also needed an increased awareness to the needs of the craftsmen they represent. They were opposed to merit payments although these are not unknown in the industry.

### Discussion

In the discussion which followed it was clear that most of the speakers agreed that the widespread ignorance of the need to take on and train apprentices and the methods and facilities available for this training was deplorable. MR. HALL, Principal of Warrington Technical College, wondered whether the technical colleges were only acting as selectors for higher grades, but MR. STEVENS and MR. MACQUEEN (Liverpool College of Building) pointed out that while the colleges might be unconsciously sifting out students by means of normal wastage processes, there would be plenty of craftsmen going forward to take on supervisory jobs if recruitment were satisfactory. The industry had had to recruit through general building, and other professions, or semi-professional sources, because of the shortage of properly apprenticed and trained craftsmen.

# Housing in USA

## New Federal Standards

THE FEDERAL HOUSING ADMINISTRATION in Washington has this year issued new Minimum Property Standards. These replace the 23 different standards which applied to different parts of the United States. Other features of the new standards (MPS's) are:

For the first time, all FHA standards —including material formerly contained in separate bulletins or determined by field office rulings—are compiled in one place.

Where unusual conditions of climate or geography make some variation necessary, a 'local acceptable standard' for a field office jurisdiction may be established with approval from FHA Washington headquarters.

The emphasis is on standards of performance rather than on methods. This gives builders greater freedom in design and construction.

The new standards are spelled out in detail, in plain, direct language. Illustrations are used where they can convey the meaning better than words.

Recognised standards developed through research and composite judgment are made part of the new MPS's.

Builders who operate in several states and the manufacturers of prefabricated houses will now have a single set of standards to work with.

The new standards are the first major overhaul in 25 years. Of them the FHA says:

'Although the Minimum Property Standards are entirely new and written from a different point of view, they represent no sweeping changes from the old MPR's. Their great value is in being up-to-date, consistent throughout the country, clear, detailed and specific.'

Some examples of the new approach are:

'Minimum lot size is not specified. It is determined by the area needed for the house, laundry yard, building setback, light ventilation, and other considerations. As long as provision for these is adequate, the house may be placed anywhere on the lot.

'Bedroom sizes are more flexible. An overall area of 280 square feet, for example, is specified for a three-bedroom house—the smallest bedroom to have at least 80 square feet.

'Ceilings may be dropped from 7 ft. to 6 ft. 9 in. in the basement and from 7 ft. 6in. to 6 ft. 8 in. in halls and baths. Other ceilings may vary to a total room average of 7 ft. 6 in. The MPR's required a minimum of 7 ft. 6 in. on the main floor, in most places.

'Inside kitchens are acceptable, as well as the inside bathrooms and utility rooms which were previously allowed. These inside rooms permit more efficient use of space and greater freedom in design. Artificial light and mechanical ventilation may by used in them.

'Single studs for window openings not more than 3 ft. 6 in. wide are acceptable in wood frame construction.'

## Obituary

*C. E. W. Boreham, FRIBA*

MR. CYRIL ERNEST WALTER BOREHAM, FRIBA, of Beckenham, staff architect with Lloyds Bank Ltd., died at his home on December 16.

## Societies

*Hong Kong Society*

*Admission to Alliance.*—Formal application has been submitted by the Hong Kong Society of Architects for admission as an Allied Society. Of the 62 RIBA members resident in Hong Kong, 51 are already members of the Society and the remaining 11 have been urged to join. The Rules of the Society have been examined and are in order, and the Society has been in being since September, 1956.

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# The Week in Parliament

By Our Own Correspondent

THE HOUSES OF PARLIAMENT adjourned for the Christmas recess on December 17 and will resume sittings on Tuesday, January 26, 1960. On Thursday of that week MPs will debate the Payment of Wages Bill.

## The Offices Bill

AMID MUCH Opposition jubilation, the Offices Bill, a private member's measure, was given a second reading against Government advice on December 11. The measure, which provides statutory minimum standards of conditions of employment for those working in offices, was stated by one MP to be the sixteenth Bill within 36 years designed to remedy what could only be described as a 'scandalous condition of affairs.'

The need for extending existing legislation to cover unprotected categories was considered by the Government Committee of inquiry into health, safety and welfare in non-industrial employment, set up in January, 1946. This committee reported in March, 1949 and made recommendations which included proposals for providing statutory provisions for those employed in offices.

The first clause of the Offices Bill provides that the Home Secretary should make regulations specifying the standards as to structure, arrangement and operation to be applied in offices for the protection of the health, safety and welfare of people employed there and in particular for:

(a) Sufficient and suitable facilities for conveniences;
(b) Adequate and suitable facilities for washing which should include hot and cold water;
(c) The prevention of overcrowding;
(d) Sufficient and suitable lighting;
(e) A standard of reasonable temperature;
(f) Effective and suitable methods of maintaining adequate ventilation;
(g) Adequate and suitable accommodation for clothing not worn by employees during working hours;
(h) Ensuring that all offices should be kept clean;
(i) An efficient means of escape in event of fire;
(j) Adequate supplies of drinking water;
(k) The maintenance of adequate and suitable first-aid equipment;
(l) The regular inspection and maintenance of electrical equipment;
(m) The fencing of dangerous parts of any machinery or equipment used in offices.

### The Government's Case

The Government's case against the Bill was voiced by MR. DENNIS VOSPER, Joint Under Secretary, Home Office, who said that MPs were not in dispute about the aim, but about whether this should be achieved by legislation or whether by encouraging capital investment and high standards of working conditions they could achieve the objective more rapidly.

The Government believed that a positive approach to the problem was the redevelopment of the central areas of cities and towns in which most office accommodation was situated and it must be evident to all that it was proceeding apace at the present time.

In London, for example, 21.5m. sq. ft. of new office building were completed between the end of the war and June, 1959. Another 9m. sq. ft. had received planning permission.

No precise figure had been collected about expenditure on office building but the Minister of Works estimated that about £45m. was spent in office building in Great Britain in 1955 and that this figure would rise to about £70m. in the current year. It must be clear to MPs that great changes had been taking place in office conditions in the last four or five years and, given another 10 years, he believed there would be few offices which did not measure up to the Gowers Committee recommendations. It was very doubtful if legislation on the lines proposed could make it any quicker.

Other changes in our way of life made the Gowers recommendations less applicable than 10 years ago. The Government were not anxious at this stage to codify standards which might retard this process of expansion, in which case the formal minimum of the Gowers standards might well become the maximum. Given expansion he believed they could do better than the standards laid down in the report 10 years ago. The Government's policy had been to encourage all those elements which would contribute towards higher standards.

If the House was of the opinion that it wished to proceed with this legislation a very different Bill would be needed. It was the Government's intention and desire that encouragement should be given to investment in redeveloping office premises in the belief that this was the best way of solving the problem. Nevertheless there were those who considered there remained a need for further action.

Since the Gowers Committee completed their work there was little specific evidence about conditions in offices generally. Further up-to-date information was required and the Government proposed to ask selected local authorities to report on the situation as they saw it today. This inquiry would be instituted as quickly as possible.

## Hospital Building

MR. PEYTON asked the Minister of Health on December 14, if, in view of the desire of regional hospital boards to plan their building programmes in such a way as to eliminate avoidable delay, he would make an early statement concerning the centrally-financed projects which would be commenced during the next three financial years.

MR. WALKER-SMITH.—'Hospital boards have already been asked to plan all the major schemes that are likely to be started in the next three years.'

MR. PEYTON. — Does the Minister appreciate that this uncertainty about what they can spend and when they can spend it is a source of great difficulty to regional hospital boards? Will the Minister do his best to produce some really long-term planning? The initiative should come from him.

MR. WALKER-SMITH.—We are doing our best in this direction. Hospital boards have been told the total capital allocation in the next financial year, £25.5m., and the one following, of £31m. We have large projects to the ultimate value of nearly £40m. which are expected to start in the next two years and we have also got schemes which the boards have been asked to plan, on which work has not started, to the value of nearly £80m. I think the boards will find there is plenty of work to be going on with in the next three years.

MRS. E. M. BRADDOCK.—The money might be there or available but the fact is there is an insufficient number of people in the architectural and planning departments of regional boards to be able to get anywhere near the estimate of spending the Minister has given. What steps are being taken to see that the departments who have to do the planning and architecture are built up with the personnel necessary to be able to get on with the jobs?

MR. WALKER-SMITH.—I have this matter in mind. There is considerable pressure on the architectural skill of the country at the present time but we are doing what we can to help. In particular we have extended our own design unit at the Ministry in order that we can furnish the greatest help we can by way of design suggestions.

## The Housing Programme

FOR THE SECOND WEEK in succession, the Opposition took their grievances about the current housing situation to the Prime Minister and on December 15 MR. FRANK ALLAUN asked Mr. Macmillan if he would undertake a personal tour of some of the industrial towns and cities to see the bad housing conditions 'in which millions of British families live.'

A Conservative MP, MR. MARTIN LINDSAY, objected to this phrase before the Prime Minister could answer. He said the question should not have been allowed for it contained an argument which could not be accepted on the Government side of the House and also contained an imputation. But the Speaker held the question was in order. It was, he said, an assertion of fact for which the member who put the question accepted responsibility.

MR. MACMILLAN said, amid loud cheers from his supporters: 'I am glad to say that housing conditions in industrial areas have been materially improved in the last eight years. I am, of course, aware that a great deal still remains to be done. I have during my Premiership visited a a large number of industrial towns and cities in this country and I hope to continue this practice.'

MR. ALLAUN: 'Would not such a visit show that thousands of families have been waiting 14 years and that in 1959

6m. households are without a bath? Most people cannot afford to buy their own house and their hopes are receding because local councils have been forced to halve their programmes since 1954 by the Government's high interest rates. Cheap housing loans are vital.'

MR. MACMILLAN said there were a large number of questions of fact in that question which he could not accept. 'It is surely common knowledge,' he said, 'that by an enormous national effort a very great deal has been done in the housing sphere, probably greater than in any other country in the world. We have a right to be proud of that. There are of course arguments about what would be the best method of concentrating our efforts now. I think that concentrating on the slum clearance programme is the right method. There have been only two serious slum clearance programmes in our history, both under Conservative Governments.'

MR. MANUEL said housing authorities were having to cut their programmes appreciably because of high interest rates and subsidy reduction and if the Prime Minister wanted to make a step forward in slum clearance he would need to get interest rates reduced and the subsidy restored.

MR. MACMILLAN said slum clearance programmes were covered by special subsidies for that purpose.

### Council House Building

On the same day, MR. ALLAUN tackled the Minister of Housing and Local Government for an estimate of the number of council houses likely to be completed by December 31 this year compared with last year and with 1954, and if he would give the reason for the expected decline.

MR. HENRY BROOKE wrote in reply: 'For England and Wales the numbers in 1954 and 1958 were 199,642 and 113 146 respectively. My estimate for 1959 is about 100,000; the principal reason for the decline in completions this year being the restrictions on starts imposed towards the end of 1957 as part of the Government's successful effort to counter inflation. The number of starts in 1959 are showing a substantial increase over the previous year.'

MR. ALLAUN also asked the Minister to state approximately the number of households without a fixed bath.

MR. BROOKE wrote: 'The best estimate I can make at present is that out of the 14.5m. houses in England and Wales there are between three and four million without a fixed bath. A more up-to-date estimate will be possible when the results of the 1961 census become available.'

## *Other Business*

### Progress in Development Areas

MR. JAY asked the President of the Board of Trade on December 8, how many new Government-financed factory-building schemes, including extensions, and how many private schemes, had been approved in Development Areas in 1959; what were the corresponding figures for 1958; and what was the volume of new employment involved in each year.

MR. F. J. ERROLL, Minister of State, wrote in reply.—'Ninety-six Government-financed schemes have been approved so far this year and 207 private schemes received IDCs up to the end of October. Estimated new employment from these schemes is about 25,000. In the year 1958, 46 Government-financed schemes and 253 private schemes were approved, estimated to provide about 20,000 new jobs.'

He also stated that during 1959, 38 projects by local authorities for clearing derelict sites in development areas had been approved for grant at an estimated cost of £210,000. No projects were approved in 1958.

### Factory Building in the South-East

MR. JAY asked the President of the Board of Trade on December 8, what percentage, measured by sq. ft., the total of new factory approvals in the London and South-Eastern Region was of total approvals in Great Britain in the first 10 months of 1958 and 1959 respectively.

MR. ERROL, Minister of State, wrote: 'For schemes of over 5 000 sq. ft., 21.5 per cent in 1958 and 18.7 per cent in 1959.'

### Gravel-Winning Inquiry Requested

Requests for the setting up of a committee to inquire into future gravel-winning in South Buckinghamshire and South-West Middlesex were put to the Minister of Housing and Local Government on December 8. Two MPs wanted no new concessions or extensions granted until the committee had reported.

SIR KEITH JOSEPH, Parliamentary Secretary, Ministry of Housing and Local Government, wrote in reply that in consultation with the Minister of Agriculture, Fisheries and Food, and the Minister of Works, Mr. Brooke was already investigating the future of gravel working in this area, and when full information was available the position would be discussed with the local planning authorities concerned and the industry. 'In these circumstances the Minister does not think it is appropriate to set up a committee. As each application must be decided on its merits Mr. Brooke cannot undertake to ensure that no new permissions are granted until these inquiries are completed.'

### Rebuilding of the Guards' Chapel

Asked when the Guards Chapel at Wellington Barracks, destroyed by enemy action in the war, was to be rebuilt, MR. SOAMES, Secretary of State for War, said, on December 9: 'I hope that we shall be able to start building in 1961.'

### War Office Consultation with RFAC

MR. DRIBERG asked the Secretary of State for War, on December 10, what consultations took place between his department and the Royal Fine Art Commission when major projects of building or reconstruction were being undertaken; and at what stage the Commission was consulted when the rebuilding of the Royal Artillery Barracks, Woolwich, was being planned.

MR. SOAMES wrote in reply: 'We consult the Commission over a new building if its design is of artistic importance or a matter of public amenity. Plans for Woolwich barracks were shown to the Commission after they had been approved by the local authorities. Some changes in the scheme were made at the request of the Commission who then agreed to our proceeding.'

### Noise Abatement

MR. NABARRO asked the Minister of Health, as representing the Minister for Science, on December 14, whether he would establish a committee, analogous to the Beaver Committee which led to the clean air legislation of 1956, to inquire into all sources of noise, including steam hammers, pile-driving, pneumatic drills, and uninsulated industrial machine-shops, and to make legislative recommendations.

MR. WALKER-SMITH.—The Government have decided to set up a committee to examine the nature, sources and effects of the problem of noise and to advise what further measures can be taken to mitigate it. The membership will be announced later.

### Defects in Cooling Tower

MR. SNOW asked the Minister of Power on December 14 whether he was aware of the fault which had developed in a cooling tower of novel design at present being constructed by the Central Electricity Generating Board under the capital development plan, and the consequent reconstruction involved; and what special provision he made for the possibility of frustrated expenditure when giving capital sanction to projects of this nature.

MR. RICHARD WOOD wrote in reply: 'The major construction projects of the Central Electricity Generating Board are carried out by contracting firms which are responsible, under the normal contractual arrangements, for correcting faults such as the one to which my attention has been drawn. No special provision is needed, therefore, in the Board's capital investment programme.'

### Closing of Brickyards

MR. SYMONDS asked the Minister of Works on December 15, what was the number of brickyards closed up to December, 1958; and how many of these had been restarted up to October 31, 1959.

LORD JOHN HOPE wrote: '210 brickworks are recorded as having ceased production between 1951 and 1958. Many of these had exhausted their clay reserves and had gone out of business, some were inactive, some of the others have turned over to other clay products and three are known to have restarted brickmaking this year.'

### Future of Euston Station

MR. WYATT asked the Minister of Housing and Local Government on December 15 to withhold his approval to the application now being made by the British Transport Commission for immediate permission to demolish the Propylaea and Great Hall of Euston Station, in view of

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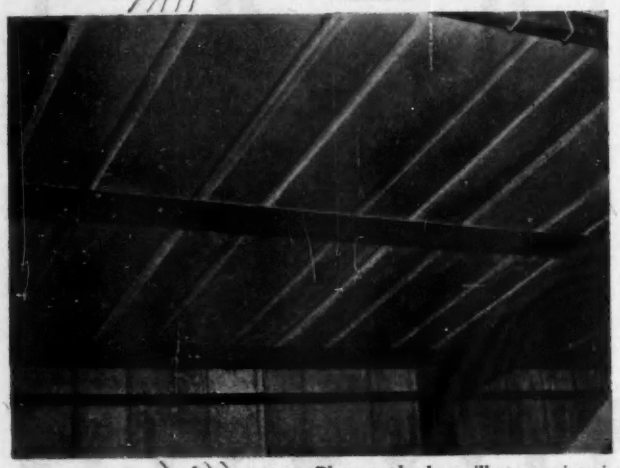

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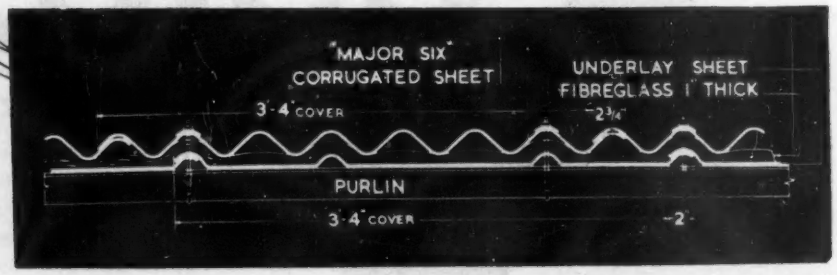


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the fact that Euston Station was the first railway station ever built in any capital city and was included in the statutory list of buildings of historic interest.

MR. BROOKE in a written reply, stated: 'These buildings being on the statutory list, two months' notice of any proposal to demolish them must be formally given to the London County Council, who must forthwith inform me. I understand that no such notice has been received by the council. If it should be received, both the council and I will have an opportunity of considering whether to intervene.'

**Planning Appeals Procedure**

MR. ABSE asked the Minister of Housing and Local Government, on December 15, to direct his inspectors to exclude hearsay evidence in planning appeals and conduct such appeals as far as may be practicable with an observance of the rules of evidence now prevailing in civil courts.

MR. BROOKS wrote: 'The object of a planning inquiry is to bring out all the information necessary to enable me to reach a decision. The present procedure is designed to achieve this object without unnecessary expenditure of time and money by the parties. Adoption of Mr. Abse's proposal would make it difficult for appellants and other interested persons to present their case without incurring the expense of legal representation, and might lead to the exclusion of useful information on purely technical grounds. I would invite attention to the conclusion of the Franks Committee that at these inquiries strict rules of evidence were not required.'

MR. ABSE also asked whether it was with the Minister's approval that, after the close of publicly conducted planning appeals in Wales, planning authorities, without the consent of the appellant, were subsequently permitted to make private written representation to the inspector of the Minister.

MR. BROOKE wrote: 'My inspector makes his report to me on the basis of what takes place at the public inquiry. But I cannot stop anyone from making representations to me at any time. If, after the inquiry, I receive representations from one side raising a fresh point which might be relevant to my decision, it is my invariable practice to give the other side an opportunity of seeing and commenting on these representations before I reach a decision. Should it seem necessary I would reopen the inquiry.'

MR. PEYTON asked the Minister of Housing and Local Government on December 15 what changes he contemplated in the appeals procedure under the Town and Country Planning Acts, with particular regard to awards of costs.

MR. BROOKE wrote in reply: 'The Lord Chancellor, with whom I have been in consultation on this question of costs, intends to refer it to the Council on Tribunals.'

**Planning Applications**

MR. GRESHAM COOKE asked the Minister of Housing and Local Government on December 15 what steps he would take to make it easier for members of the public likely to be affected, to become aware of planning and development applications before decisions on them were reached.

MR. BROOKE wrote in reply: 'I agree that there are some planning applications of such wide interest that the general public should be aware of them before a decision is taken. But it is exteremely hard to find a form of words that would define these, and I am anxious to avoid introducing further complication into planning procedures which would add to delays and difficulties. I am considering the whole question.'

**New Airways Buildings**

The Air Corporations Bill to increase the borrowing powers of BOAC and BEA was given a second reading on December 15. MR. GEOFFREY RIPPON, Parliamentary Secretary, Ministry of Aviation, said that while a very high percentage of expenditure up to the end of 1963-64 would be on aircraft, BOAC would also have to spend a considerable amount on buildings and premises. At the moment the corporation had in hand plans for work on the Victoria Air Terminal, the central aircrew training establishment at London Airport and the engineering component test house at London Airport. Besides these items there was the continuous flow of minor works. BEA was extending its engineering base at London Airport and proposed to undertake further work at the London Air Terminal in Cromwell-road and to provide a training centre at Heston.

**Road Building Schemes in Cities**

MR. PARGITER asked the Minister of Transport which major cities, other than London and Birmingham had, in response to his request, provided information on the schemes they would like to carry out over the next five or six years; and what was the total expenditure envisaged in each case.

MR. MARPLES wrote in reply: 'I have so far received replies from nine large cities in addition to London and Birmingham. The schemes they would like to be authorised would cost about £37m. I cannot yet say what the outcome will be. Details are:

| City | Financial Years, 1960/61–1965/66 |
|---|---|
| | £ |
| Bradford ... ... | 3·5m. |
| Bristol ... ... ... | 5·1m. |
| Cardiff ... ... ... | 2·1m. |
| Coventry ... ... | 2·7m. |
| Hull ... ... ... | 5·4m. |
| Liverpool ... ... | 5·5m. |
| Newcastle-upon-Tyne | 5·5m. |
| Sheffield... ... ... | 6·3m. |
| Stoke-on-Trent ... | 1·0m. |

MR. ERIC JOHNSON asked what progress had been made with the Hyde Park road scheme, and especially with the underpass at Hyde Park Corner.

MR. MARPLES wrote in reply: 'I understand that the preliminary works, consisting of the diversion of the complicated system of sewers, pipes and cables at Hyde Park Corner are nearly complete. The LCC have now invited tenders for the main works, including the under-pass, with the intention of starting work early in the new year.'

**BTC and RFAC**

MR. DRIBERG asked the Minister of Transport on December 16 if he would give a general direction to the British Transport Commission that before major works of modernisation were undertaken at British Railways hotels, the plans were to be submitted to the Royal Fine Art Commission.

MR. MARPLES wrote in reply: No. The Commission seek planning permission for new buildings in accordance with the requirements of the Town and Country Planning Act. Where it is considered desirable, having regard to the position and importance of the proposed building, either the local authority from which permission is sought would consult the Royal Fine Art Commission, or the British Transport Commission would do so themselves.'

MR. CYRIL OSBORNE asked what general directions had been given to the British Transport Commission with regard to the development of urban sites, in view of the potential profitability of such development.

MR. MARPLES wrote: None.

**Points from Replies**

'I have decided that No. 5 runway at London Airport shall be extended from 9,576 ft. to 11,000 ft. The work is due to be completed in 1961.' (*Minister of Aviation, December 7.*)

'No date has yet been fixed for the commencement of the next stage of Crawley Hospital.' (*Minister of Health, December 7.*)

'I have issued local consents to local authorities for the purposes of the Small Dwellings Acquisition Act and similar provisions in the Housing Acts as follows: 1956-57, £63.8m; 1957-58, £49.8m; 1958-59, £46m; 1959-60 (first eight months), £37.6m. (*Minister of Housing, December 7.*)

'Sketch plans for a new out-patients' department at Selly Oak Hospital, Birmingham, have been approved and the regional board were authorised in October, 1959, to prepare working drawings and bills of quantities. I cannot yet say when building work will commence.' (*Ministry of Health, December 7.*)

'The survey of private streets will cover the whole country and where any district has special problems these will be noted.' (*Ministry of Housing, December 8.*)

'I have received various representations asking for the introduction of capital allowances for commercial buildings and have promised to consider them.' (*Chancellor of the Exchequer, December 8.*)

'I understand that the Royal Commission on London Government hope that their report will be available by next August.' (*Minister of Housing, December 15.*)

'0.4 per cent of national income will be devoted to new roads and major improvements during the current financial year.' (*Chancellor of the Exchequer, December 15.*)

# 'Block Release' Training

## Successful Experiment at Erith

*From a Correspondent*

IT IS NOT OFTEN a scheme is claimed as one hundred per cent successful but certainly those responsible for the 'block-release' system of training craft apprentices at Erith appear to consider they have achieved just this. Full marks to all those concerned for the courage in questioning existing well-tried methods of normal part-time day release, but before these are completely rejected, further thought may well be given to the following points:

(a) Education at the moment progresses with the age and experience of the student. He is growing up and gaining industrial knowledge which can be discussed weekly with his lecturers. During the second period of block-release the practical work devised for the students appeared to have proved too difficult but the result with the same students may have been more satisfactory after an equal number of one-day-week classes.

(b) Educational authorities may have to reconsider existing service conditions of full-time lecturers in technical colleges since block-release may not be able to offer continuous employment in classes, especially in some of the poorly supported crafts such as brickwork, plastering and painting.

(c) The present craft indentures call for attendance on the part of apprentices on one day and two evenings a week and most technical colleges show a time-table covering these periods. According to the report, Erith had previously arranged its part-time day time-table on one day and only one evening each week. In its block-release proposals, however, the time-table shows block-release practically equivalent to one day a week and, in addition, two evenings each week. Bearing in mind the excellent priming the students received about the experiment, cannot some of their success be also attributed to extra instructional time given?

### Difficulty of Comparison

It is difficult to compare examination results unless the same students can be trained under both systems. There is no doubt the students are blossoming under the searchlight of publicity given them during the trial periods, but it may well be incorrect to assume that block-release is the perfect answer to educational problems in the building industry.

If the student has the will and incentive to learn, nothing need prevent him from attaining high qualifications under present arrangements. The new block-release could easily fail if the continuity afforded by evening class attendance is neglected either by lack of enthusiasm on the part of students or by employers believing they have played a sufficient part by allowing attendance at the day block-release classes, and then employing apprentices on contracts where evening attendance may prove too difficult and also cause loss of bonus, etc., to apprentices. This latter point may well raise the question of advisability of paying bonuses, etc., until an apprentice has become properly qualified, even if it entails shortening somewhat the present apprenticeship so as to allow an apprentice to concentrate on learning during his earlier years in the industry.

These points appear in the Erith report but unfortunately without solutions being offered.

# Building in the City

## Court of Common Council to pay for station roof car park

THE COURT OF COMMON COUNCIL, at their meeting on December 17, approved a proposal to pay for a £300,000 roof car park for 525 cars over Cannon-street station when it is reconstructed. The Streets Committee, in their report, stated that the British Transport Commission had decided not to proceed with the construction of the station's new roof in a way enabling cars to be parked there, and that they had investigated the possibility of the Corporation undertaking responsibility for the development.

The Committee asked for approval in principle of an arrangement under which the Commission would construct the car park, which would also have a possible future use as a helicopter station, and would grant the Corporation a long-term lease of the accommodation. The Corporation would reimburse the Commission 'the extra cost of providing such accommodation over that of providing a roof for railway purposes only,' and would pay the Commission a percentage of gross profits. The Corporation would be responsible for maintenance, and the total cost to them was estimated at £300,000. Annual costs were estimated at £34,000 and annual income on a full use basis at £46,500.

MR. D. G. MILLS, chairman of the Streets Committee, said that schemes would be submitted to the Council early next year proposing ever-widening restrictions on parking in areas of the City. Earlier, MR. H. E. DE COURCY HOWARD had asked Mr. Mills whether he would arrange to include the firm of Alderton Construction Co. on the approved list for tendering for the construction of flyovers and underpasses in the city. MR. MILLS replied that no list of contractors for construction of flyovers and underpasses had yet been considered by his committee, and the City Engineer was the 'appropriate channel of communication.'

MR. HOWARD, in a supplementary question, asked Mr. Mills to bear in mind that those in the City liked people who had the courage to say what they thought. Would Mr. Mills give an undertaking not to enter into any arrangement with the Ministry of Transport or the LCC to penalise the company because of the outspokenness of its chairman? MR. MILLS said that there would never be a question of any firm being penalised.

On the Housing Committee report dealing with a recommendation to erect an initial block of 24 flats and 16 garages at a cost not exceeding £85,000, MR. DOUGLAS YOUNG pointed out that it was recommended that Messrs. McMorran and Whitby be appointed architects at fees in accordance with the scale laid down by the RIBA. 'I am fully in agreement with such an appointment, but I feel that the terms of appointment are indefinite and vague,' he added. He then moved an amendment that the 'architects be asked to define the terms upon which they do accept the appointment, stating the percentage by which their fees will be reduced upon the costs of services where other consultants are retained.' The amendment was carried.

### Drawings Approved

The Council approved drawings, in substitution for those previously approved, in respect of the following developments:

Erection of a new livery hall, on land fronting Basinghall-avenue, formerly the site of Girdlers' Hall and of 42, 43 and 44 Basinghall-street, 5 Coleman-street, and Nos. 4 and 5 Basinghall-avenue (Waterhouse and Ripley, Staple Inn Buildings, High Holborn, WC1). Erection of a building comprising basement, ground and seven upper floors for use as a livery hall on the basement, ground and first floors, and for use as offices on the second to seventh floors at Bakers' Hall, Harplane (Trehearne and Norman, Preston and Partners, 83 Kingsway, WC2).

Drawings were also approved for the rebuilding of premises, as existing prior to destruction by enemy action, for use as offices with ancillary storage for the provision trade at 23 and 24 Smithfield-street (Roffey, Adamson and Partners, 8 Cumberland House, Kensington-court, W8).

### Developments Allowed

The following developments were permitted, in accordance with plans submitted, subject to certain conditions:

Erection of a new office building at 1 to 10 Drapers-gardens and 8 Copthall-avenue (Messrs. Joseph, 3n, Kings Bench-walk, EC4); erection of a building, comprising basement storage, ground floor and three upper floors for use as offices (Porte and Partners, 16 Devonshire-square, EC2); and erection of a three-storey office building (block 5) which forms part of the comprehensive development for the area, at Hillgate House, site bounded by Ludgate-hill, Old Bailey, Seacoal-lane and Ludgate-square, excluding the London Electricity Board building in Seacoal-lane (Redevelopment Unit No. 16) (Theo Birks, 38 Portland-place, W1).

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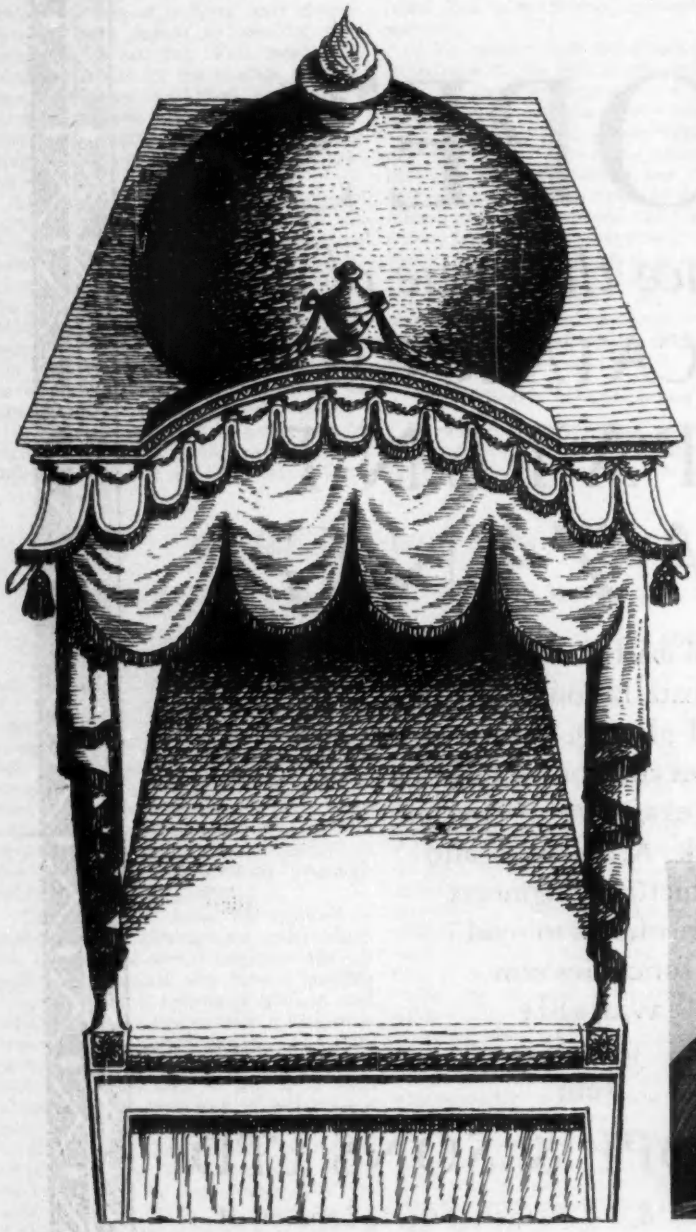

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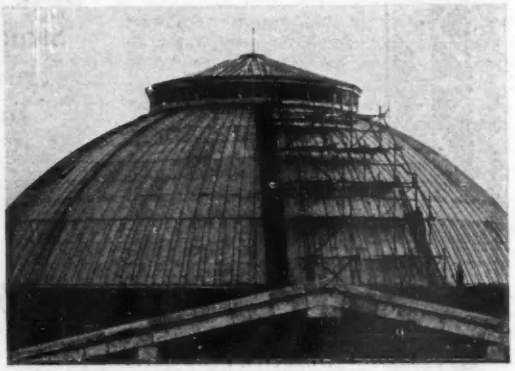

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# MoW Winter Lectures

## Programme for January

THE JANUARY PROGRAMME of Ministry of Works lectures on subjects of interest to the building industry is as follows:—

*Cheltenham.*—January 7: 'Oiled-Fired Domestic Heating Installations,' by J. W. Musgrave, at North Gloucestershire Technical College, The Park. 7.15 p.m.

*Ipswich.*—January 7: 'The RIBA Form of Contract,' by D. Gardam, at the Crown and Anchor Hotel. 7.15 p.m.

*Portsmouth.*—January 12: 'Glued Timber Laminations,' by W. A. Chugg, at the Technical College, Anglesea-rd.. 7 p.m.

*Leicester.*—January 13: 'Maintenance of Buildings,' by F. T. Griffiths, at Leicester College of Art and Technology, The Newarke. 7.15 p.m.

*Edinburgh.*—January 13: 'Artificial Lighting for Modern Buildings,' by J. B. Harris, at the Royal Society Hall, 24 George-st. 7.15 p.m.

*London.*—January 14: 'The RIBA Form of Contract,' by I. N. D. Wallace, at the Building Centre, Store-st., WC1. 7.15 p.m.

*Worthing.*—January 14: 'Glued Timber Laminations,' by W. A. Chugg, at the Court Room, Town Hall. 7.15 p.m.

*Guildford.* — January 15: Discussion: 'Value for Money in the Building Industry,' by R. Duncan Scott, A. Burnard, W. S. Jones, at Guildford Technical College. 7.15 p.m.

*Willesden.*—January 19: 'The Builder and His Contract,' by N. P. Greig, at Willesden Technical College, Denzil-rd., NW10. 7.15 p.m.

*Southampton.*—January 19: 'Developments in Paint and Painting,' by B. Butler, at the Technical College, Albert-rd. 7.15 p.m.

*Motherwell.*—January 19: 'Space Heating by Electricity,' by W. M. Stevenson, at Fraser's Restaurant, Muir-st. 7.15 p.m.

*Manchester.*—January 19: 'Underfloor Heating by Electricity,' by W. N. Shires, at Manchester College of Building, Hardman-st. 7.15 p.m.

*Stoke-on-Trent.*—January 20: 'Prevention of Accidents in the Building Industry,' by J. A. Hayward, at City of Stoke-on-Trent College of Building, Cauldon-pla. 7.15 p.m.

*Bristol.*—January 21: 'Methods and Plant for Concrete,' by A. B. Harman, at the Small Lecture Theatre, Queen's Building, New School of Engineering, University of Bristol. 6 p.m.

*St. Albans.*—January 21: 'Four New Techniques in Building,' by D. Bishop, at Hertfordshire College of Building, Hatfield-rd. 7.15 p.m.

*Leeds.*—January 22: 'Work Study in the Building Industry,' by R. Geary, at Guildford Hotel, The Headrow, Leeds, 1. 7.15 p.m.

*London.*—January 26: 'Prevention of Accidents in the Building Industry,' by J. A. Hayward, at Lambeth Town Hall, SW2. 7.15 p.m.

*Grantham.*—January 26: 'Thermal Insulation of Buildings,' by F. King, at Grantham College for Further Education, Avenue-rd. 7.15 p.m.

*Swansea.*—January 26: 'Electric Floor Warming,' by E. W. Faithful, at Beaufort Hall, Mackworth Hotel. 7 p.m.

*Milford Haven.*—January 27: Film Show: 'Building and Civil Engineering Subjects,' at Lord Nelson Hotel. 7 p.m.

*Gloucester.*—January 27: 'Oil-Fired Domestic Heating Installations,' by C. A. Roast, Esso Petroleum Company, at Gloucester Technical College, Brunswick-rd. 7.30 p.m.

*Wakefield.*—January 28: 'Practical Formwork Design and Construction for Concrete,' by J. G. Richardson, at the Technical and Art College, Bell-st. 7.15 p.m.

*Llanelly.*—January 28: 'Small Heating and Ventilating Systems,' by A. N. Robinson, at the Gymnasium, Technical College. 7 p.m.

# London Master Builders' Association

## South-Eastern Annual Prize Giving

THE ANNUAL PRIZE GIVING of the South Eastern Area of the LMBA was held at the Daylight Inn, Petts Wood on December 4. The prizewinners and the representatives of the Technical Colleges were first entertained to luncheon, and the parents of many of the prizewinners attended the presentation, which took place at 2 p.m.

The proceedings opened with a cordial welcome to the prizewinners and the other guests which was expressed by the Area Chairman, Mr. L. W. Harding. The prizes were then presented by Mr. K. J. Pearce, TD, FIOB, the president of the LMBA who subsequently delivered a congratulatory and encouraging address to the prizewinners and their parents.

Mr. W. T. Harrison, BSc, principal of Erith Technical College, paid tribute to the cordial relationship which existed between the LMBA and the technical colleges, and to the interest taken by the builders in the work of the latter.

The thanks of the prizewinners were expressed by Mr. C. F. Leech, who had been awarded the Student of the Year Prize, presented to the most outstanding student at the technical colleges within the Area.

The proceedings terminated with a vote of thanks to the president and the other guests which was proposed by Mr. L. H. Miller, immediate past chairman.

# Ballast and Sand Industry

## Wages Agreement Amended

BY AGREEMENT of the National Joint Council for the Ballast and Sand Industry, the Wages Agreement has been amended as follows:

1. The basic rates of wages for Labourers shall, from the beginning of the first full pay period falling on or after January 1, 1960, be as follows: Class 1, 3s. 10½d. per hour; Class 2, 3s. 9½d. per hour.

2. The rate of payment to Watchmen shall, from the beginning of the first full pay period falling on or after January 1, 1960, be as follows: Class 1, 24s. 9d. per shift; Class 2, 23s. 9d. per shift.

NOTE: Employers already operating a higher basic wage in accordance with Clause 7 (7) of the Wages Agreement may be exempted from such portion of the present increase as is already in operation.

*Drivers' Wages.*—The rates of wages for 'C' Class Licence Drivers are still under consideration, but any adjustment subsequently agreed will be operative from the same date as for quarry workers.

Further details on application to the Employers' Secretary, National Joint Council for the Ballast and Sand Industry, 48 Park-street, London, W1.

# Road Construction Techniques

## *Research into New Methods and Materials*

FIVE LINES of research are being given special emphasis at the road research laboratory of the DSIR. The relation between the benefits from road improvements and their cost; the study of means of avoiding slipperiness in road surfaces; and the problems of pavement design are among the subjects discussed in 'Road Research, 1958,' published on December 14 (HMSO, price 5s. 6d.).

Attention is drawn to the shortage of traffic engineers qualified to assist in planning the road programme. The extension of post-graduate schools in highway engineering at universities are commended and it is stated that these and other activities should be extended. The increasing importance rate of trunk and motor-road construction has stressed the importance of reinforcing the experience of the highway engineer with scientifically-based methods of equating the soil foundation and the traffic to be carried with the thickness of the road structure. The full-scale road experiments being carried out by the laboratory are being supplemented by the measurement of traffic stresses communicated through the road to the soil foundations.

As a guide to the engineer to help him in the selection of plant for compacting road foundations and embankments, without the fear of further settlement after the construction of the road, the laboratory has issued a technical paper describing investigations with pneumatic-tyred rollers.

In a section on road surfaces, the DSIR state that in dense asphalt surfacings a certain degree of hardening of the surface binder film helps the surface to remain non-skid. This hardening effect can be achieved by using mixed binders of coal-tar pitch and a straight-run bitumen; stable mixtures containing up to 35 per cent of pitch can be made by using an orifice-type machine.

# Books Received

SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK, 1959-60. Edited by Davis, Belfield & Everest. (London: E. & F. N. Spon Ltd.). Price 35s.

SCULPTURE IN CIMENT FONDU. By John W. Mills. (London: Contractor's Record Ltd.). Price 16s.

HOUSE DRAINAGE PRACTICE. By A. J. McL. Munro. (London: Angus & Robertson.) Price 25s.

EXAMPLES OF THE DESIGN OF REINFORCED CONCRETE BUILDINGS, 2nd. Ed. By Charles E. Reynolds. (London: Concrete Publications Ltd.) Price 12s. 6d.

# Inquiry Bureau

## Chimney Downdraught

QUESTION: For some time I have suffered from a downdraught from my living-room chimney. The stack is constructed on a flat roof at the rear of the house and the top of the chimney in question is approximately 12 ft. below the level of the ridge of the main roof. I fitted a patent pot which failed to stop the trouble and at present I am using an 'improved step' without any marked improvement. The trouble occurs only during a south-westerly gale. Can you offer me any advice?

A. J. J.

ANSWER: The exact position of the house has not been stated, neither has the distance between the front ridge and the chimney. These points might have some bearing on the trouble. If the chimney is on the opposite side of the house to the prevailing wind then the current of air is swept upwards by the roof slope, after which it would curl downwards farther on. If the chimney is some distance from the ridge it might be subjected to the downward current, but closer to the ridge would not be affected. The patent pot, which is a louvred unit, would not prevent this type of downdraught, but one of the other types of cowl which are covered on the top allowing smoke to come out of the sides, would be more effective. It must also be realised that where the current of wind is pressing on a building it creates suction on the opposite face, causing a partial vacuum to form on the lee side and generally within. The chimney is then perhaps the only means by which air can be drawn in to fill the vacuum and the smoke from the fire is therefore drawn into the room instead of going up the chimney.

Some kind of ventilation to the living room is required in this case. The circular 'hit-and-miss' glass ventilator which could be fixed to a window on the side of the house is quite neat and has been found effective, but any ventilator to the room in a position not affected by the suction will suffice.

R. M. E.

## Tuck Pointing

QUESTION: I would like to have some information on tuck pointing. What are the various mixes required and where is it possible to purchase the necessary tools?

A. W.

ANSWER: The tools required for 'tuck pointing' are those used for ordinary pointing, e.g., feather edged pointing rule, hawk, frenchman and trowels, plus two 'jointing tools,' 2½ in. and 4 or 5 in. long, and ⅛ in. or 3/16 in. wide. The work should be raked out to a depth of ¾ in. and the faces of the bricks brushed and thoroughly cleaned to reveal their natural colour. A coloured stopping to match the brickwork is then applied to all joints flush with the faces and rubbed over to obtain a similar texture.

While the stopping is green, the joints for the tuck pointing can be marked out and recessed for about ⅛ in. in the stopping, using the jointing tool with the pointing rule as a guide. This gives a key for the pointing mortar. A gauge rod can be marked out for the horizontal joints, and the bond can be set out on a batten for the perpends, which should be plumb from top to bottom of the building. The stopping is made from a 1 : 1 : 6 mortar (cement, lime and sand) to which one of the proprietary brand coloured cements is added. The mix may require two or more colours to get the required tint and white cement may be required instead of grey Portland. Trial mixes should be made and allowed to dry out before the final decision is made.

When the brickwork is very stained or multi-coloured it is best to well clean and wet the wall and stop up all the joints with an average coloured mortar, leaving a texture similar to the brick. Mark out the joints as before, and when set, cover the whole face with a cement wash.

The mortar for tuck pointing can be neat white cement. Some silver sand may be added but a rough surface and edging is likely to be obtained. A little white lime can be added to the cement to make it easy to work. Black pointing is obtained by the addition of some vegetable black pigment to ordinary Portland cement. The pointing mortar is knocked up and laid on the pointing rule in a pat; the pointing rule is laid along the edge of the marked joints and the mortar taken off with the jointer and laid in the joints to stand out about 1/16 in. The edges of the joints are then cut off on both sides with the frenchman.

R. M. E.

## Hard Bricks and Waterproofing

QUESTION: In 1958 a garage with 4½ in. walls and a pitched roof was constructed. Against one gable-end a fuel bunker was built with a sloping top of concrete recessed into the wall. During the following winter, wind-driven rain went right through this wall (which faces due south-west) to such an extent that it collected on the floor of the garage. The brick is a hard one and I presume that the water came through the joints.

In the spring of 1959 the whole garage exterior was painted with a waterproof paint with four coats on the wall in question. This has made a big difference, but wind-driven rain still gets through and runs down the wall inside the garage to the floor. It also gets in where the concrete bunker top is recessed into the wall and runs down the inside of the bunker and wets the fuel. This concrete top was given three coats of a sealer during the summer and particular attention was paid to the point where the concrete was recessed into the brickwork. H. J. Y.

ANSWER: When hard bricks are used there is always a tendency for the jointing mortar to shrink away as the setting and hardening takes place, and this leaves hair cracks which act as capillary channels to convey the water across the wall. The treatment given appears to be adequate, but either the cracks previously mentioned were not completely sealed or the new paint has crazed and cracked, allowing water to get behind the paint.

The joint between the bunker top and the garage wall is a weak spot for the entrance of water, and although it could have been taken care of during construction, the best remedy now is to fix an apron flashing of lead, copper, zinc or bitumastic felt. This should be tucked 3 in. into a joint 3 in. to 6 in. above the bunker top and dressed down the face of the wall and about 4 in. on to the bunker roof slope. A plumber's tack, dot or similar fixing can be used for securing down on to the bunker top; the top joint should be securely pointed in.

A waterproof rendering, rough casting or shingle dashing properly applied would secure the wall, but this may not conform to the appearance of the rest of the house. It could, of course, be tile hung with similar tiles to those on the roof. As a temporary measure, one of the proprietary brands of colourless water repellant silicates or silicones, which can be obtained from any builders' merchant, may suffice. These should be thoroughly brushed into the wall face in two or three coats.

R. M. E.

# Birmingham Housing Trends

*Emphasis on Flats and Maisonettes*

MORE THAN 2,100—i.e., 86 per cent of the 2,515 dwellings planned by Birmingham Corporation for next year—will be flats or maisonettes. Only 351 of the target figure will be houses or bungalows. Almost half of the dwellings in the building programme will be in blocks of between six and 16 storeys in height.

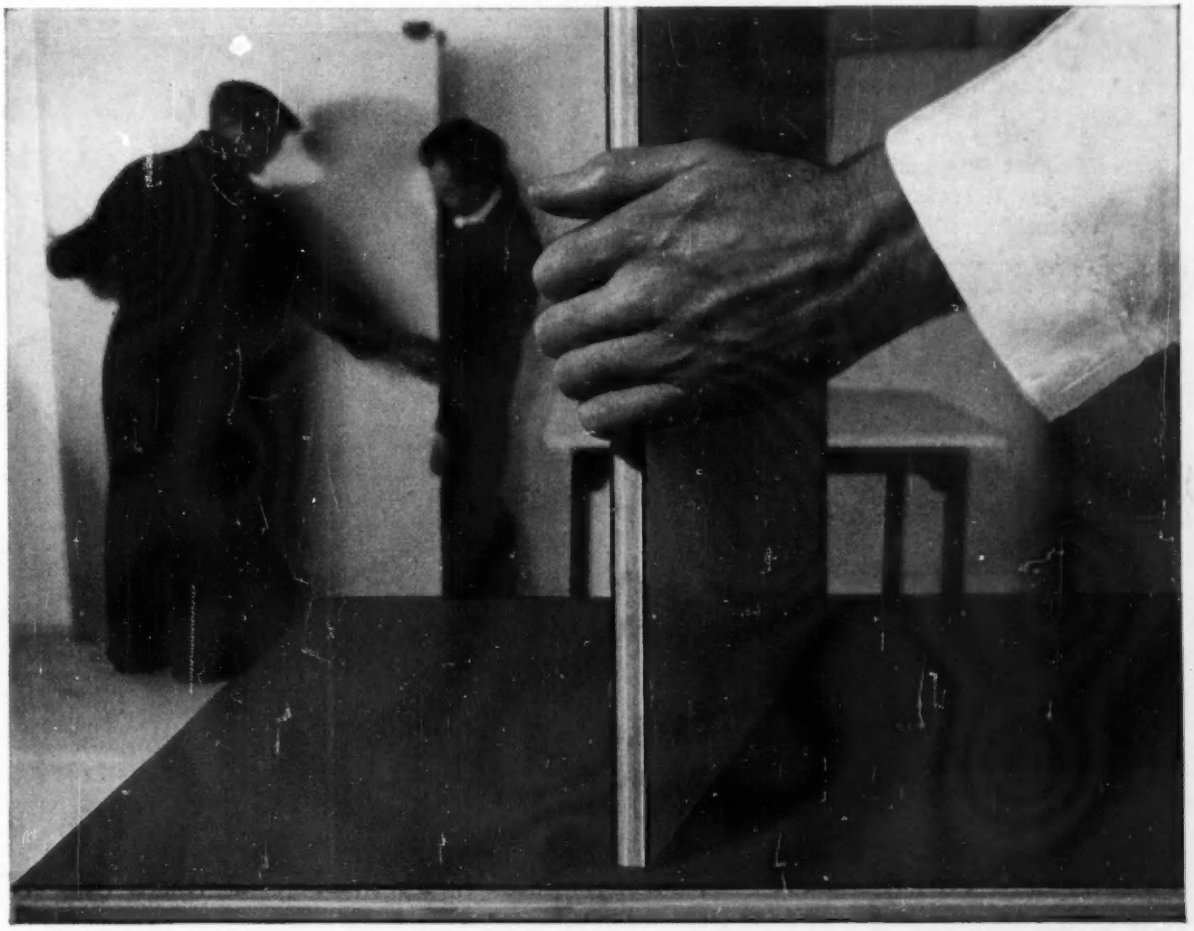
Giving details of the plans on Saturday, December 12, ALD. A. F. BRADBEER, a member of the house building committee, said that although the Birmingham Corporation had not yet been hard hit by the brick shortage throughout the country, contracts had been slowed down.

Ald. Bradbeer said that of the 2,515 total, there will be 343 one-bedroom types; 1,106 two-bedroom; 172 three-bedroom for four people; 803 three-bedroom for five people; 80 four-bedroom and six five-bedroom. There will be 33 bungalows, 318 two-storey dwellings; 199 in three storey blocks, 684 in four storeys; 96 in six storeys; 354 in eight storeys; 429 in nine storeys; 138 in twelve storeys; 83 in 14 storeys and 181 in 16-storey blocks.

Birmingham is well behind with its 1959 plan for 2,174 dwellings, but it is stated that the target may yet be achieved.

*Two years intensive research went into its development. Its properties are unique. Its application revolutionary. The entire process of using laminated plastics can now be considerably extended and greatly simplified with . . .*

# FORMICA* beautyboard*



Essentially, FORMICA Beautyboard is a conventional FORMICA laminate, ready-veneered to a unique combination of special lightweight woods and backed with a laminate which needs no further finishing. It therefore offers a *complete* and ideal method of wall cladding — particularly for 'wet applications' or for applications where extremes of humidity exist: for example, centrally heated buildings.

**No uneven laminations** This is because FORMICA Beautyboard's unique properties remove for you the risk of Warping and Telegraphing.

**The surfacing and the surface.** Since FORMICA Beautyboard combines the decorative surfaces, the core and the balancing veneer it will simplify considerably many familiar applications. Wall cladding and partitioning with FORMICA decorative laminates are merely two examples.

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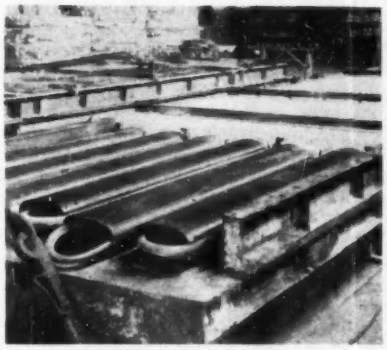
# TECHNICAL REVIEW

*This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 77 of this issue. The form can be used for more than one inquiry.*

## 1. Concrete

Steel or plastic DUCT FORMERS have been designed specially for making circular, oval or rectangular ducts in precast concrete products. A core of the required cross section to the necessary length is constructed with a slot down one side. Into this slot a specially shaped fillet is inserted to the ends of which a length of cord is attached. This cord is placed inside the core. The duct former is then placed in the mould in the design position and to prevent it moving, due to the upthrust of the concrete, it is held down at intervals by a steel cross-piece into which are bolted wedge-shaped spacers. When the concrete



*Duct formers lying in a mould before the concrete has set*

has been cast and set, the cord is withdrawn, pulling away the rubber fillet, thus allowing the two faces of the slot to snap back into position. The former is then tapped at each end, to ensure that the bond with the concrete is broken, and withdrawn.

*P. C. Floors Ltd.,*
*64-66 Battersea High-st., SW11.*

## 2. Flooring

New cast-iron FLOOR PLATES for industrial flooring are high quality castings said to provide twice the hardness of mild steel. Exactly 12 ins. square, the edges and pattern of the plate are sharply defined and the vertical sides slightly inset. The underside has cross flanges for strength which, with the shaped edges, serve to key the plates to the bedding and to each other. To ensure good adhesion in laying, air escapes are suitably located and the underface has a rough matt finish. The surface pattern has been designed to overcome slipperiness whilst the fairly shallow grooves make it easy to clean.

*Stelcon (Industrial Floors) Ltd.,*
*Clifford's Inn, London, EC4.*

## 3. Miscellaneous

To minimise the hazards of explosions occurring in batch ovens an 'EXPLOSION RELIEF' can now be incorporated in the design. This consists of layers of aluminium foil and asbestos mounted in a panel and fitted to one complete wall of the oven. Disintegration of this panel allows pressure to be released quickly and effectively before the oven is damaged. Usually the most satisfactory position for the relief panel is at the rear, so that the space behind the oven can be screened to protect personnel from the effect of flash and blast.

*Barlow-Whitney,*
*2 Dorset-square, London, NW1.*

A new SAFETY BLOCK, now available in this country, is designed to give security to operators in high places. The block contains 16 ft. of steel wire rope, spring loaded and controlled by a braking device. It can be quickly fixed anywhere and has a locked hook for simple attachment to the workman's safety belt. The workman has completely free movement and the rope is always taut but in the event of a fall the brake operates and the man is gently brought to a stop within 12 in. and supported.

*Neldco Processes Ltd.,*
*Crossway House, Bracknell, Berks.*

A pneumatic SPOTNAILER is a labour saving device that can be employed on many hand nailing and pinning operations. As many as 200 fasteners at a time can be loaded into the magazine and a new high velocity principle is used to shoot the fastener into the wood. There is no bounce or recoil to the action and no effort is required to hold the tool in position. Fasteners up to 2 in. in length can be used and the machine, which is operated by touch button, needs only 100 p.s.i. or less.

*Spotnails Ltd.*
*Devonshire Hse., Vicarage-cres., SW11.*

## 4. Roads

A vibratory ROAD ROLLER, weighing 3.7 tons and driven by a 25 h.p. water-cooled diesel engine, is now being manufactured by Babcock and Wilcox under Continental licence. The machine has two gear speeds in both forward and reverse, a steering roller and a vibratory roller in tandem and, so that it can be used close up to walls and kerbs, the drives for both the travel and vibrator are on one side only. A water-spray device is fitted on both the front and rear rollers. The water is gravity fed from a water tank, through a distributor covering the full width of the rollers and spread by rubber contract strips. These can be raised when not in use to avoid unnecessary wear. The roller can be used for general soil compaction but is particularly suited to work on successive layers of a road structure laid over a solid bed and for rolling hot or cold macadam.

*Machinery (Continental) Ltd.,*
*42 Park-street,*
*Mayfair, W1.*

## Technical Publications

A new 8-page illustrated booklet, recently issued by CAPE BUILDING PRODUCTS, LTD., of Cowley Bridge Works, Uxbridge, Middlesex, discusses factory insulation and fire protection based upon the use of 'Asbestolux' lining specifications. 'Asbestolux' consists mainly of amosite asbestos fibres and a specially selected grade of silica, both of which are inorganic and chemically inert, and is both incombustible and durable. As regards its thermal insularity, fitted as an under purlin lining beneath standard corrugated asbestos-cement sheeting, it provides a U value of approximately .20 which is well below maximum value permitted under the Thermal Insulation (Industrial Buildings) Act of 1957.

FERODO, LTD., have just published a new edition of the Ferodo Stairtread leaflet. The latest version has been restyled to comply, when folded, with the International Standard recommended by the RIBA for manufacturers' trade and technical literature. All relevant information on dimensioned sections, materials, colours, standard lengths and prices, is now to be found on the one side of the opened leaflet. Fixing instructions, with line illustrations, drilling procedures and curves, return ends and special shapes currently produced are given on the reverse side. Free copies of the leaflet can be obtained from the London and Glasgow Building Centres or from any Ferodo branch office.

During recent years architects have incorporated in their designs an increasing number of roofs with lightweight materials as structural units over which asphalt has been applied as the waterproof membrane. THE NATURAL ASPHALTE MINE-OWNERS AND MANUFACTURERS COUNCIL have been concerned to ensure the best application details, as many problems are met with light-weight constructions that do not arise in the more traditional types of roof.

As a result of its investigations, the Council have now published technical information sheet No. 3/59 which gives illustrations of the application techniques for asphalt on Stramit and on Wood Wool, used both as structural units and also when these two materials are used as insulation media. Brief advice is also given in respect of each application.

Copies of this technical information sheet are available from the Council at: 1¼ Howick-place, Victoria-st., SW1.

A new booklet, showing the basic principles in erecting their Mark II Formwork, has been issued KWIKFORM LTD. of Waterloo-rd., Birmingham, 25. Copies are available on request.

# News in Brief

### Plastics in Building

THE PROCEEDINGS of the conference on 'The Influence of Plastics in Building,' which took place at the RIBA, 66 Portland-pl., on November 19 last, will be published in a special conference issue of the 'Transactions and Journal' of the Plastics Institute dated February, 1960. Copies may be reserved, price 15s.

### 'Design' Magazine Changes

On January 1 John E. Blake becomes Editor of 'Design.' He succeeds Michael Farr, who becomes Chief Information Officer of the Council of Industrial Design on the same date. Malcolm J. Brookes will be Assistant Editor. Kenneth Garland remains Art Editor.

### Contract for Strip Mill

The order for the building of the 68-in. wide hot strip mill for the new Spencer Works at Newport, Mon., of Richard Thomas & Baldwins Ltd., has been placed with Davy and United Engineering Company Ltd., of Sheffield. The value of the contract exceeds £4m.

### Millionth Private Enterprise House

Following the article in our issue of December 11 on the one millionth private enterprise house, we are informed that Wates Ltd., building and civil engineering contractors, are the principal builders to Span Developments Ltd., and were the contractors for this Blackheath house.

### Nuclear Power Station Construction

The Department of Building of the South-East London Technical College is to run a short course of five lectures on 'Nuclear Power Station Construction,' to be held on Monday evenings commencing January 11 next. Enrolments may be made by post or in person on January 4 between 6.0 and 8.0 p.m. at Worsley Bridge-road, Lower Sydenham, SE26. The fee for the course will be 10s.

### Visit by European Contractors

During the course of the 1959 Building Exhibition a number of French and Belgian plumbing and roofing contractors were invited to this country by the Copper Development Association. The party was shown over London's large new building development site at Notting Hill Gate where considerable use has been made of prefabricated copper plumbing services.

### Flats at York

The building of 20 self-contained flats for single people at New Earswick, York, for the Joseph Rowntree Memorial Trust, is being undertaken by F. Shepherd & Son Ltd., York, at a cost of about £45,000. Designed by Swedish architects—Sven Backstrom & Leif Reinius, of Stockholm, the flats will benefit from their long experience in Scandinavia of building small dwellings.

### Heating Advisory Centre

More than 30,000 new dwellings in the area of the North Thames Gas Board have been carcassed for gas since the end of the war. The Board's Headquarters Division, working in conjunction with the industry's research laboratories, offers a specialist service for every aspect of gas utilisation, based on the Home Heating Advisory Centre, Regents Park-road, Finchley.

### BRS Digest

The latest publication on plumbing in the Building Research Station Digest series is No. 127 'Simplified Plumbing for Multi-storey Flats.' This gives design rules for single-stack systems for blocks of flats up to five storeys high (or eight storeys for maisonettes), and for a modified form of the one-pipe system requiring a reduced number of vents for blocks of flats or maisonettes up to 15 storeys high. Copies from HMSO, price 4d.

### Bristol College of Technology

The College in collaboration with the Regional Council for Further Education for the South West has arranged a short course on ultimate load design in concrete construction. The object of the course, which is to be held on March 4 and 5, 1960, is to offer sound practical information for all those interested in the subject. The fee (exclusive of meals and accommodation) is £2 2s. Applications should be forwarded to the College of Technology, Allen House, Ashley Down, Bristol, 7.

### A Useful Handbook

The 1959-60 edition of the Handbook of the Federation of Civil Engineering Contractors is now available. The Handbook lists the names and addresses of the 680 members of the Federation and contains all the main Federation documents including the Working Rule Agreement of the Civil Engineering Construction Conciliation Board, the ICE Conditions of Contract and the Federation Dayworks Schedules. Copies, price 12s. 6d. (including postage) from the Federation at Romney House, Tufton-street, Westminster, SW1.

### FBI Trade Report

The Federation of British Industries have issued a report entitled 'UK Trade with Scandinavia and Finland.' It summarises hitherto unpublished talks which took place last May at a series of conferences between the FBI and commercial representatives of British Embassies in Denmark, Norway, Sweden, and Finland. The conferences, held in London, Birmingham, and Glasgow, were organised to discuss the scope of the Scandinavian market for British goods. Copies from the FBI (Print and Publications Dept.), at 21 Tothill-street, SW1, price 4s.

### Current Prices, Wages

*Current prices of materials and rates of wages are held out this week. Together with the measured prices feature they will appear on January 1.*

### Roof Structures

A reprint from the Journal of the Institution of Heating and Ventilating Engineers, entitled 'Determination of the Thermal Properties of Roof Structures,' has now been published by Turners Asbestos Cement Co. Ltd. A description is given of an apparatus for the determination of the thermal conductance and transmittance of an asbestos cement roof structure, their dependence upon temperature and the effects of varying internal relative humidity at low external temperatures. The author, C. Wood, is a member of the research department of the company.

### 'Forest Products'

Barclays Bank DCO, which has, over the years, produced books on the territories in which it has branches and issued occasionally special publications on commodities, have now published a 200-page book on 'Forest Products.' Considerable attention has been given to collecting up-to-the-minute information concerning the many new uses for forest products and the development of a whole range of valuable by-products such as wood sugars, industrial alcohol, gazogene and wood gas. Copies are available, free of charge, on application to the Bank's Economics department, 54 Lombard-street, EC3.

### Worcestershire Green Belt

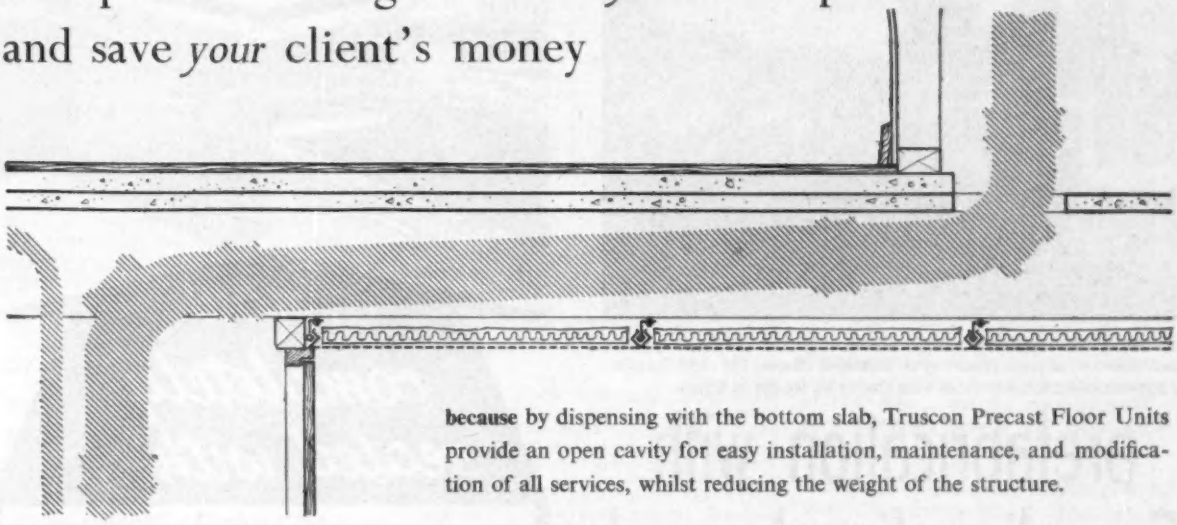
The establishment of a 145-square mile green belt in North Worcestershire has been recommended to Worcestershire County Council. In establishing the belt the council intends to limit expansion of towns in the north of the county to prevent their merging. A Planning Committee report states that the belt has become one of the most urgent and important planning problems facing the council as the volume of daily travel to work by car has produced still further pressure to build in the country. It is proposed that pockets of land should be left for towns to develop within the belt but the 'rounding off' of villages should be kept for the needs of rural communities.

### Contractors' Plant

The Contractors' Plant Association have now published their handbook for 1959/60. The volume contains a full list of firms from whom plant may be hired or purchased and in addition there is a useful section on plant data giving details of capacity, weights and measurements of a large number of items of machinery. Copies may be obtained from the Association at Hanover House, 73/78 High Holborn, London, WC1, price 17s. 6d.

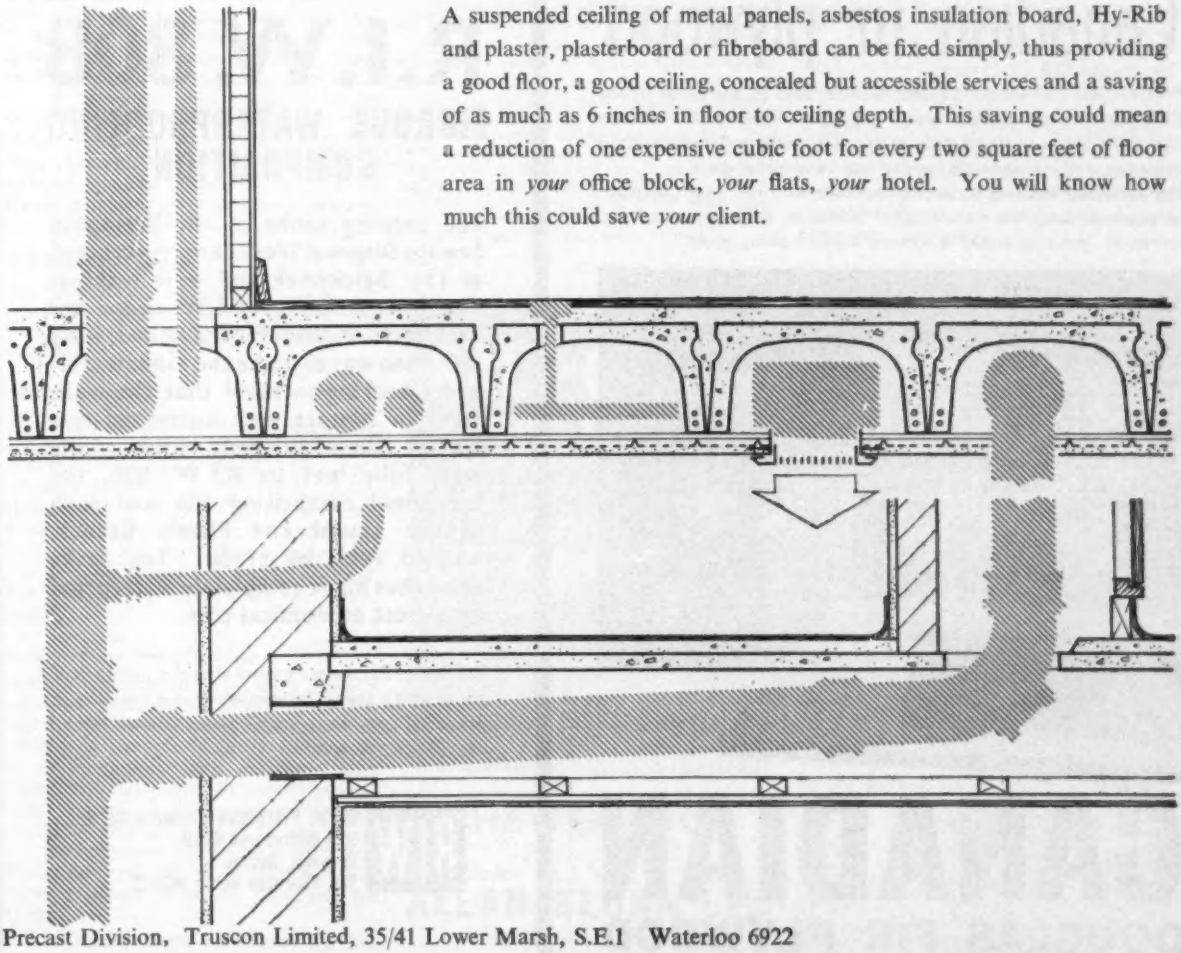
# Truscon Precast Floors plus

## a suspended ceiling can solve *your* duct problems and save *your* client's money



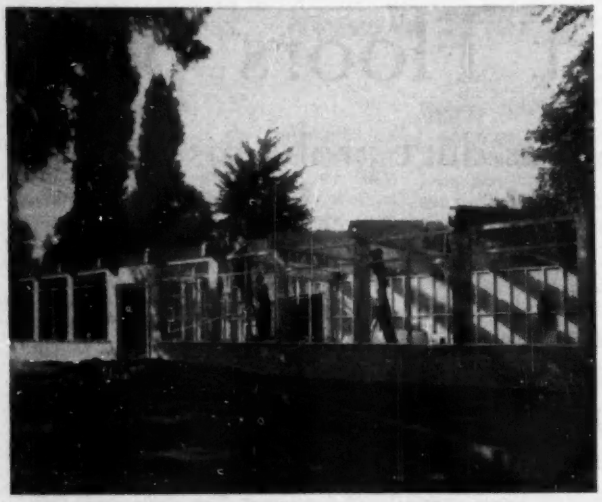
**because** by dispensing with the bottom slab, Truscon Precast Floor Units provide an open cavity for easy installation, maintenance, and modification of all services, whilst reducing the weight of the structure.

A suspended ceiling of metal panels, asbestos insulation board, Hy-Rib and plaster, plasterboard or fibreboard can be fixed simply, thus providing a good floor, a good ceiling, concealed but accessible services and a saving of as much as 6 inches in floor to ceiling depth. This saving could mean a reduction of one expensive cubic foot for every two square feet of floor area in *your* office block, *your* flats, *your* hotel. You will know how much this could save *your* client.



Precast Division, Truscon Limited, 35/41 Lower Marsh, S.E.1 Waterloo 6922

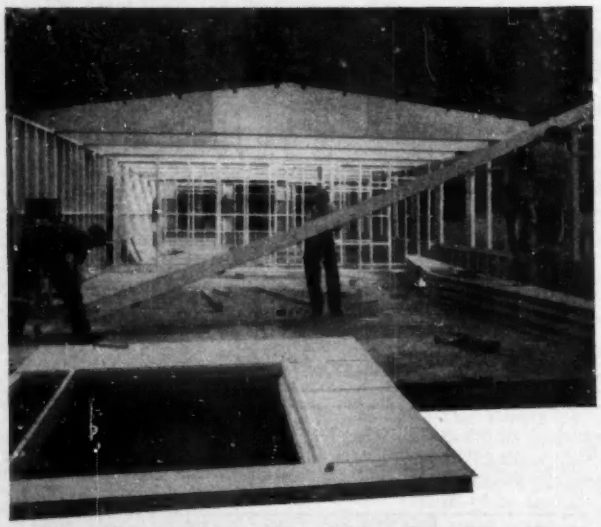
*Also at: Birmingham, Central 2345-6; Bristol 21861; Glasgow, Central 0157-8; Liverpool, Central 5281-2; Manchester, Trafford Park 2766; York 24594*



GRENVILLE COLLEGE a new private school in Suffolk (shown here under construction) was prefabricated by D. McMaster (Bures) Ltd., and Canadian fir plywood building components were erected on the site in 6 days.

# prefabrication with Canadian fir plywood

Prefabrication of school building components is *one* place where Canadian fir plywood cuts costs. Canadian fir plywood — a grade to suit any job — is structurally strong, light, easy-to-handle without breakage, and permanently bonded with waterproof glue.
Prefabricated building components, made with low cost Canadian fir plywood, save the manufacturer money on material, labour and transport. *Ask your timber & plywood supplier about prices.*



# CANADIAN
## DOUGLAS FIR PLYWOOD

For free technical data on fir plywood prefabrication write to :-
**PLYWOOD MANUFACTURERS ASSOCIATION OF BRITISH COLUMBIA**
WHEATSHEAF HOUSE, 4 CARMELITE STREET, LONDON, E.C.4.

FIR PLYWOOD MARKED PMBC EXTERIOR HAS WATERPROOF GLUE

59-20

*Once leaking...*

*... now completely sealed with ...*

# R.I.W. 808
## FIBROUS WATERPROOFING COMPOSITION

**The settling tanks of the Brampton Sewage Disposal Works are constructed of 13½" brickwork and were leaking. The instruction to R.I.W. from the architects, Messrs. Pick, Everard, Keay & Gimson was to make the tanks waterproof bearing in mind that the walls were in contact with untreated raw sewage. These stringent requirements were fully met by R.I.W. 808, the treatment comprising one coat each of the Liquid and Plastic Grades, applied cold, by brush. The tanks were thus made completely waterproof at a most economical cost.**

*Our illustration shows a general view of a small part of the Brampton Sewage Disposal Works, and a close-up of one of the tanks which was completely waterproofed by the use of R.I.W. 808.*

R.I.W.

R.I.W. Protective Products Co. Ltd.
325 Whitehorse Road.
Croydon, Surrey
Tel. Thornton Heath 6121/2

## Trade News

### Minister's Visit to Concrete Works

LORD JOHN HOPE, Minister of Works, is making it his business to study modern building methods, in order to familiarise himself with all aspects of his new duties. Following his visit to the Building Exhibition, he selected a number of factories and laboratories for further study. On December 15 he visited one of these, the works and laboratories of Concrete Ltd., Green-lane, Hounslow, where Bison precast concrete floor and roof slabs, precast load bearing walls and beams and columns are designed and manufactured.

The Minister of Works expressed great interest in latest methods of designing and manufacturing precast concrete structures and inspected typical examples of current Bison production, among them a 50 ft. long precast column for a new hospital, and precast concrete piles weighing more than 5 tons, for the new factory of Richard Thomas and Baldwin, at Swansea.

### New Ground Engineering Division

THE Cementation Company Ltd., international civil, mining and specialist engineers, of 20 Albert Embankment, SE11, announces the formation of a Ground Engineering Division. This Division comprises two main departments—Cementation and Geotechnical. The Cementation Department is a long-established unit of the Company, while the Geotechnical Department is newly formed, taking over the activities previously conducted by the Company's Soil Mechanics and Vibroflotation sections as well as devoting particular attention to the development of technical solutions to problems of ground treatment.

### Exhibition in March

AN exhibition illustrating 'Gas At Work In Industry' will be held at the Royal Horticultural Hall, Westminster, from March 1 to 12.

### Company Merger

AUTO-DIESELS, LTD., and its subsidiaries, Diesel Equipment, Ltd., and Norman Industrial & Marine Engine Co., Ltd., are now members of the Fredk. Braby Group. As a result of this move, Mr. Frederick Braby and Mr. Cedric Braby have joined the Auto Diesels Board and Mr. A. J. W. Green and Mr. L. W. Parncutt have been elected to the Braby Board.

### Long Service Presentations

FORTY-SIX EMPLOYEES of Turners Asbestos Cement Co. Ltd. were presented with Long Service Certificates at Widnes on Saturday night (December 5). Three employees were presented with Certificates for their 40 years' service, each having already received cheques for £250, and 43 persons, of whom six are women, were presented with Certificates for their 25 years' service, each having already received cheques for £100.

The presentations were made by Mr. R. M. Bateman, Chairman.

## Company News

TURNER & NEWALL LTD. recommend the payment of a final dividend of 15 per cent. on the £21,889,436 issued ordinary stock of the company for the year ended September 30, 1959 (1958—10 per cent.).

THE ENGLISH TELEPHONE CO. LTD. announce that on December 9 a resolution was passed increasing the nominal capital to £100,000. The issued capital fully paid is £50,000.

BLUNDELL, SPENCE & CO. LTD. announce that Mr. Justice Roxburgh has sanctioned the Scheme of Arrangement already approved by the stockholders at meetings held on November 13 last. The appropriate court order is being drawn up and the proposals outlined in the Scheme will be implemented shortly.

## Personal Column

On reaching retiring age, MR. J. H. W. MORGAN has relinquished his office as Radio Division Chief Accountant with Siemens Edison Swan Ltd. He will, however, continue to serve the organisation for a time at 33 Grosvenor-pl., London, SW1, headquarters of AEI Ltd.

MR. CYRIL BAYTON, chief mechanical engineer of Taylor Woodrow Construction Ltd., has been appointed to the board of Taylor Woodrow Plant Co. Ltd., a member of the Taylor Woodrow Group of building and civil engineering companies. MR. JACK ROGERS, head of the personnel and contracts internal audit departments at the Taylor Woodrow Group's headquarters, Southall, Middlesex, has been appointed to the board of Taylor Woodrow Services Ltd.

MR. J. R. NEWMAN has been appointed managing director of Messrs. Burn Brothers (London) Ltd.

MR. WALTER GRIFFITHS, formerly Northern Area Manager of the Building Boards Division of Bowaters Sales Company Ltd., has been appointed sales manager of Flexpipe Ltd.—now a member of the Bowater Organisation. In this new capacity, he will be responsible for the sale of pitch fibre pipes used for sewerage and land drainage, agricultural irrigation and cable conduits.

GALT-GLASS
ROOF LIGHTS
DOME LIGHTS
eliminate
GLARE
and
SHADOW
transmit 90% daylight
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29 CRAVEN STREET, LONDON W.C.2
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## OVERSEAS BUILDING

BRITISH EAST AFRICA.—A development project involving the damming of the Rufiji River at a cost of between £80m. and £100m. has been considered by a recent mission from the Food and Agricultural Organisation of the United Nations. Their report is to be published next September. . . . Work is to begin next year on a £15m. oil refinery to be built at Changamwe, near Mombasa, by the Shell Company of East Africa and BP (East Africa) Ltd. . . . A ten-storey building which will be used by the Insurance Corporation of India and the Chancery of the Indian Commission is to be built at a cost of £225,000 in Nairobi.

JAMAICA.—The University College of the West Indies is proposing to carry out four major development projects. These include extension of the medical faculty involving a building programme of over £2m., and the establishment of an engineering faculty of approximately £¾ m.

NIGERIA.—The Eastern Region Development Corporation are to construct two large hotels costing approximately £1 m.; one at the new Independence Layout, Enugu, and the other in Port Harcourt. Work on the Enugu Hotel will commence early in January.

PERSIAN GULF STATES.—A project for a 3½ mile 4-carriageway esplanade running the length of the sea front, complete with boat-harbours, pleasure-gardens, and fountains, is under consideration by the Development Board.

SOUTHERN RHODESIA.—A new bridge is to be built over the Lundi river between Fort Victoria and Beit Bridge as part of the scheme to provide an all-weather road from Salisbury to South Africa. The bridge will be about 780 ft. long, with a 26 ft. roadway flanked by 3 ft. wide footpaths and will have seven 100 ft. spandrel-filled arches of reinforced concrete piers and abutments. Work is to start soon and the project is due for completion by September, 1961.

### Export Service Bulletin

On January 1 publication of the Special Register Information Service in its present form will be discontinued. In its place a new printed Export Service Bulletin will be issued. This Bulletin will be published three times weekly on Mondays, Wednesdays and Fridays and will contain all the urgent information about overseas calls for tender and export opportunities at present published as individual circulars in the Special Register Information Service. In addition, on every Monday, a weekly supplement will also be published which will contain the latest economic reports and market commodity reports received from the UK commercial diplomatic and Trade Commissioner service overseas.

An annual subscription of £10 10s., post paid, will be charged for the Bulletin.

### South African Appointment

Mr. R. H. Kantorowich of Cape Town, who was educated at King Edward's School, Johannesburg, and at the University of the Witwatersrand, has been elected president of the South African Institute of Town Planners.

### Aden Contract for Britain

Messrs. W. J. Simms, Sons and Cooke of Nottingham have been awarded a £1¼m. contract by the Air Ministry to supply prefabricated wooden buildings for the RAF base in Aden.

## Agencies Required

BARBADOS, WINDWARD AND LEEWARD ISLANDS.—Messrs. S. P. Musson, Son & Co. Ltd., PO Box 227, Bridgetown, Barbados, have informed the Trade Commissioner at Port of Spain that they are interested in representing a UK manufacturer of steel reinforcing rod, galvanised water pipes, cast-iron pipes, corrugated galvanised sheets, etc. The firm are considered to be a suitable connection. Manufacturers interested should write direct to the Bridgetown concern. It would be appreciated if, at the same time, they would notify the UK Trade Commissioner, Colonial Building, South Quay, (PO Box 225), Port of Spain, Trinidad. (Ref. ESB/28286/59. Tel.: Chancery 4411, Ext. 776 or 866.)

JAMAICA.—Masterton Ltd., 23/25 Hanover-street, Kingston, have informed the UK Trade Commissioner at Kingston that they are interested in obtaining as soon as possible a UK agency for galvanised corrugated steel roofing sheets They are considered to be a suitable connection.

Manufacturers interested should write direct to the Kingston company. It would be appreciated if, at the same time, they would notify the UK Trade Commissioner, PO Box 393, Barclays Bank Building, Kingston, Jamaica, BWI, that they have done so. (Ref. ESB/28959/59. Tel.: Chancery 4411, Ext. 776 or 866.)

USA.—Mr. G. M. Howard, of Standard Wholesale Supply Company, Box 4026 NE Station, 6550 Chase-road, Dearborn 1, Michigan, has informed the British Consulate-General at Detroit that his firm would like to receive quotations from UK manufacturers of steel and aluminium nails, wire products and galvanized steel sheets and coils. Standard Wholesale Supply Company are large wholesalers of building materials and are considered to be a suitable connection for UK firms. Manufacturers interested in this inquiry should write by air mail direct to Mr. G. M. Howard. It would be appreciated if responding firms would copy their initial correspondence to the British Consulate-General, 1865 Guardian Building, Detroit 26, Michigan. (Ref. ESB/28004/59. Tel., Chancery 4411, ext. 776 or 866.)

## Export Opportunities

GUINEA.—The recent Anglo-Guinean Trade Agreement provides UK manufacturers and suppliers with considerable export opportunities. In future a growing amount of Anglo-Guinean trade is likely to be channelled through the official Comptoir Guineen du Commerce Exterieur. The director of the Comptoir has indicated to the British Embassy in Conakry that he would like to be supplied with the names of leading UK manufacturers. Interested manufacturers should communicate in the first place with the Board of Trade Export Services Branch, Lacon House (Room 728), Theobalds-road, London, WC1, indicating the range of goods which they would be interested in selling to Guinea and enclosing their appropriate trade literature in French.

## SCOTTISH BUILDER

### Location for New Town

THE SUGGESTION by Glasgow's planning convener that Lugton, near the Ayrshire-Renfrewshire border, might be a suitable location for a fourth Scottish new town, has been welcomed in Ayrshire. The news comes after Glenrothes, Fife, had been named as a possible new town. Ayrshire housing committee has given the Lugton proposal its blessing. The subject will be discussed by the planning committee very shortly.

### Hospital Expansion Scheme

THE SOUTH-EASTERN Regional Hospital Board wish to spend £470,000, on expansions and improvements. This was reported at a meeting of the board in Edinburgh recently.

### Building Consortium

A CONSORTIUM has been formed in the north-east of Scotland to undertake single tender contracting. The building and plumbing trades in the area are particularly associated with this move which is one of the first developments of its kind in Scotland. The project is listed as Moray, Banff and Nairn Constructional Company, Ltd., limited by guarantee and not having a share capital; to carry on business and to enable a consortium of members of the Moray, Banff and Nairn Building Trades (Employers) Association and the Elgin, Banff and Nairn Master Plumbers Association and contractors associated with them to conjoin and submit tenders for building, engineering and other works on the basis of a single contract in the name of the company. Among the subscribers is Mr. A. J. R. Tulloch, 3 Rose-st., Nairn.


**B·A·T·S·F·O·R·D**

**Plumbing Materials & Techniques**

SYDNEY WEBSTER A.R.I.B.A.

Complementary to the author's PLUMBING IN BUILDING yet entirely self-contained, this new book concentrates on the techniques involved, describing in full the relevant methods and materials. 114 *illustrations* 30*s.*

**Law of Contract & Tort**

A. J. POLLAND

A cohesive digest of the basic principles underlying the law of Contract and Tort, written by a barrister-at-law to provide architects, auctioneers, surveyors and estate agents with a working knowledge of the subject. 37*s.* 6*d.*

**4 Fitzhardinge Street W.1**


## SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s 2½d.

For apprentices, the rates are :

| *Year* | *Percentage of Craftsman's rate* | *For week of 44 hours* s. d. |
|---|---|---|
| 1st ... ... | 25 | 52 3 |
| 2nd ... ... | 33⅓ | 69 8 |
| 3rd ... ... | 50 | 104 6 |
| 4th ... ... | 66⅔ | 139 4 |
| 5th ... ... | 75 | 156 9 |

For female labour, the rates are :

| | s. d. |
|---|---|
| Operatives on craft operations (at end of probationary period) ... ... | 4 2½ |
| Operatives on labouring operations (at end of probationary period) ... | 3 8½ |

## New Buildings

ABERDEEN.—W. Alexander & Sons Ltd., Scottish transport operators, have promised to provide plans in the very near future for a new bus station at Aberdeen. This is the result of increasing pressure in this area to have external services concentrated from one major terminal.

AYR.—Dean of Guild Court have approved plans for alterations to premises at High-st., Ayr, for F. W. Woolworth & Co. Ltd. Est. cost £93,000.

AYR.—British Transport Commission will build a covered market 300ft. by 40ft. at Ayr South Harbour for fish trade purposes at cost of £25,000. Also a new jetty and river screen at Girvan Harbour, est. cost £20,000.

DUNDEE.—Dundee TC and Dundee Harbour Bd. have reached agreement on the north terminal of the new Tay Road Bridge. The Road Bridge Com. is now seeking approval from the Secretary of State for Scotland for trial borings on proposed route across the Tay from Craighead, Newport, to King William Dock, Dundee Harbour. The Com. is also seeking the early appointment of a consultant.

EDINBURGH.—Construction of the operating theatre block—Phase II—at Western General Hospital; comprising (1) heating, steam and condensation services; (2) air conditioning and ventilation installations; (3) secondary domestic hot water system; (4) electrical lighting and power installation, and (5) electrical goods hoist. Applications to the Secretary, 1 Drumsheugh-gdns., Edinburgh, 3.

GLASGOW CORPN.—Several works contract for proposed prim. sch., Anwoth-st., Glasgow, E2. Applications to City A and Planning Officer, 20 Trongate, Glasgow, C1.

GREENOCK.—Dean of Guild Court have approved plans for 64 dwellings in Sinclair-st. area. Est. cost £100,000.

KINCARDINE CC.—23,400yd. of 2 to 6in. dia. asbestos-cement pipes, and a r.c. tank of 75,000-gall. capacity, etc., at Knox Hill, nr. Gourdon. Applications to Crouch & Hogg, engs., 18 Woodside-cres., Glasgow C3. A representative will meet intending tenderers at fire station at Invervie on January 11, at 10.30 a.m. Tenders by February 1. Dep. £5.

KIRKCUDBRIGHT.—Erection of sec. sch. at Gathouse. Est. cost £101,973.

LOCHABER.—New hospital at Fort William. Est. cost £250,000.

MOTHERWELL AND WISHAW.—A site at Camp-st. and Airbles-rd. has been chosen for the building of a civic centre by Motherwell and Wishaw TC. Est. cost of scheme is £500,000.

WEST LOTHIAN CC.—Demolition of property at Old Town, Broxburn. Applications to County Clerk, County-bldgs., Linlithgow.

# Time will tell, Time and Time again...

**The SHERMAN TRENCHER saves time...**
because it outpaces any other trencher on the market!

**The SHERMAN TRENCHER saves money...**
because it needs only 14 H.P. to keep it operating at peak efficiency!

**The SHERMAN TRENCHER saves time and money...**
because it can be coupled and uncoupled in a matter of minutes—giving you freer use of your tractor and greater interchangeability of units!

**The SHERMAN TRENCHER**

**IS ANOTHER SUCCESS from BRAY!**

**Over ~~15,000~~ 17,000 already produced**

For further details and list of Bray Dealers write to:

## BRAY CONSTRUCTION EQUIPMENT LTD.

(One of the Sheepbridge Engineering Group)

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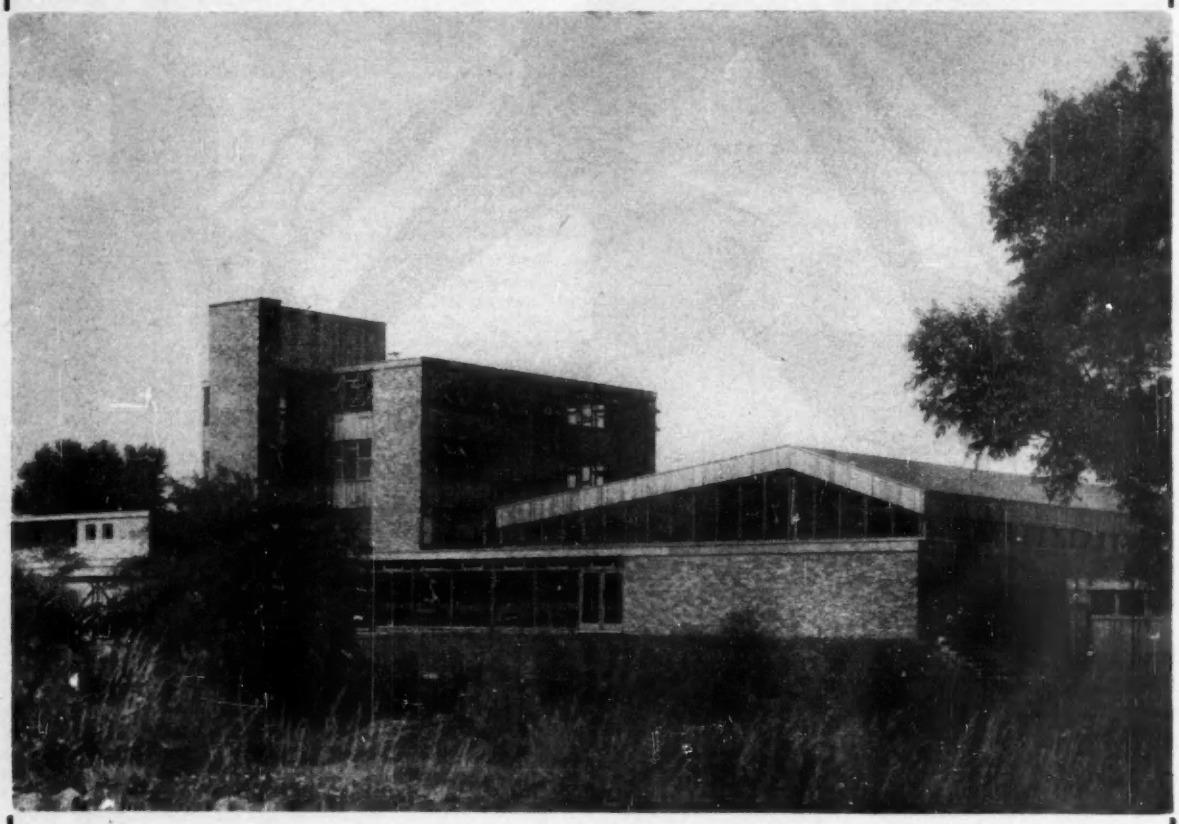
# LITTLEMORE GRAMMAR SCHOOL OXFORD

*Illustrated in this issue*



ONE OF THE MANY MAJOR BUILDINGS

IN OXFORDSHIRE & BERKSHIRE THE

CONSTRUCTION OF WHICH WAS ENTRUSTED TO

# J. SMALLBONE & SONS LTD

**STREATLEY ON THAMES · BERKS**

**GORING 262/3**

# THE BUILDER CONSTRUCTION NEWS

*Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.*

## CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding the entry indicates that applications must be received by this date.

### BUILDING

**DECEMBER 28**

(R) OLDBURY BC.—Fixed price tenders for 26 garages at Ivy House-rd. Boro' E&S. Dep. £2 2s. Tenders by January 13.

**JANUARY 1**

(AR) NEW ROMNEY BC.—14 houses at Langport-rd. TC.

**JANUARY 4**

(AR) ABERTILLERY UDC.—126 dwellings at Swffryd site 'C,' Crumlin. C. Dep. £3 3s. Tenders by February 12.

(AR) ALCESTER RDC.—Fixed price tenders for 40 dwellings and 25 garages at Studley. S. Dep. £2 2s.

(AR) SOMERSET CC.— Fixed price tenders for:—(a) Erection of Clevedon sec. mod. sch. (b) Alterations and extensions at Rowden-hse., Frome. County A.

**JANUARY 5**

(AR) ESSEX CC.—Erection of Barstable gramm. sch., Basildon. County A.

**JANUARY 6**

(AR) EASTBOURNE CBC.—Extension to kitchen at Chelsea College of Physical Education, Carlisle-rd. Boro' S. Dep. £2 2s. Tenders by February 10.

**JANUARY 9**

(A) HAVERHILL UDC.— Eight garages at Western-ave. E&S.

**JANUARY 11**

(A) SITTINGBOURNE AND MILTON UDC.—Fixed price tenders for 94 garages at Homewood, Northcourt and Quinton housing estates. E&S. Dep. £3 3s.

(A) WREXHAM BC.—Fixed price tenders for 24 dwellings at Tanat-way, Queen's Park (North). Boro' E&S. Dep. £2 2s.

**JANUARY 12**

(A) BOGNOR REGIS UDC.—Improvements to houses at three sites (3 contracts). E&S. Dep. £2 2s. (each contract).

(A) PRESTON CBC.—Fixed price tenders for two shops at Langcliffe-rd., Brookfield estate. Boro' E&S. Dep. £2 2s.

**JANUARY 15**

(AR) BLETCHLEY UDC.—Inclusion in approved lists for second stage of expansion under Town Development Act 1952. E&S.

**JANUARY 16**

CO. MAYO (Eire).—Erection and completion of proposed St. Patrick's Monastery NS at Castlebar, Co. Mayo. Thos. D'Arcy, 28 Merrion-sq., Dublin. Dep. £10 10s. Tenders by January 16.

(A) READING CBC.—Firm price tenders for six shops with maisonettes over, 12 garages, two public conveniences and one block of four flatlets at Northumberland-ave./Foxhays-rd., Whitley estate. Boro' A. Dep. £2 2s.

**JANUARY 18**

(A) HAMBLEDON RDC.—Strutting up of roof, demolishing walls and partitions, and partial re-building of 5 Abbots Cottages, Dockenfield. E&S. Dep. £1 1s.

SWINTON AND PENDLEBURY BC.—Erection of communal unit and 30 bungalows, etc., at Pendlebury. Boro' E. Dep. £3 3s.

**JANUARY 20**

(A) GODSTONE RDC.—12 houses and flats at King's Cross-la., South Nutfield. E&S. Dep. £2 2s.

**JANUARY 22**

CO. GALWAY (Eire).—New sec. sch. and hostel, at Carna, Co. Galway, for the Sisters of Mercy. QS: D. MacGreevy, 4 Merrion-sq., Dublin. Dep. £21.

**JANUARY 23**

(A) BLAYDON UDC.—30 aged persons' bungalows and two-storey building at Smailes Farm site, Rowlands Gill. C.

**JANUARY 26**

(A) SEVENOAKS RDC.—Firm price tenders for one block of four flats at Deanery-rd., Crockham Hill. E&S. Dep. £2 2s.

**FEBRUARY 1**

(A) WIGAN.—Fixed price tenders for 50 dwellings at Wilfred-st. site. Boro' & Water Engineer. Dep. £2 2s.

**FEBRUARY 4**

GT. YARMOUTH CBC.—Fixed price tenders for new police station headquarters at Howard-st. South. Boro' E. Dep. £2 2s.

**No Date**

BISHOP AUCKLAND UDC.—Fixed price tenders for 50 houses at Gudmunsen-ave., Woodhouse-close estate. E&S. Dep. £2 2s.

### SERVICES, PAINTING, MATERIALS, ETC.

**JANUARY 2**

BOOTLE CBC.—Materials, stores, etc. Boro' S.

**JANUARY 4**

EAST SUFFOLK CC.—Materials. Ch. Ed. Officer.

**JANUARY 5**

RAYLEIGH UDC.—Materials. E&S.

**JANUARY 7**

ASHINGDON UDC.—Following services for 64 flats at Sixth-ave.:—(1) Plastering materials; (2) plumbing materials; (3) dustbins; (4) sanitary fittings; (5) doors; (6) carpenter and joiner (timber); (7) hardware; (8) sundry building materials, and (9) electrical installation. E&S.

PINCHIN JOHNSON
PAINT PRODUCTS

Pinchin, Johnson & Co., Home Sales Division,
4, Carlton Gardens, London, S.W.1
Telephone: TRAfalgar 5600

PRINCIPAL STOCK DEPOTS & BRANCHES

BELFAST 5. Dalton Buildings, Dalton Street
BIRMINGHAM 1. King Edward's Place, Broad Street
BOOTLE 20. 72 Brewster Street
BRIGHTON 1. 26-27 Elder Place
BRISTOL 8. 21 High Street, Clifton
GLASGOW C.2. Ocean Chambers, 190 West George Street
LEEDS 1. Permanent House, The Headrow
MANCHESTER 3. 22 Bridge Street
NEWCASTLE-ON-TYNE 1 Pudding Chare
SOUTHAMPTON. 41 Lower Canal Walk

(A) SOUTHPORT CBC.—Exterior painting at Pier (several contracts). Boro' A. Dep. £1 1s.

**JANUARY 8**

CATERHAM AND WARLINGHAM UDC.—Materials. S.

**JANUARY 11**

CHESHIRE CC.—Materials and Services, etc. County S.

**JANUARY 12**

HARROW BC.—Materials. Boro' E&S.

**JANUARY 14**

COVENTRY CORPN.—Materials. City E.

WHITCHURCH UDC.—Materials. E&S.

**JANUARY 15**

BASILDON UDC.—Materials and Services. E&S.

WOOD GREEN BC.—Annual Supplies. Boro' E&S. Dep. £1 1s.

**JANUARY 16**

BURTON-UPON-TRENT CBC.—Materials. Boro' E&S.

**JANUARY 18**

SCUNTHORPE BC.—Materials. Boro' S.

WORCESTERSHIRE CC. — Materials. County S.

**JANUARY 20**

WALLASEY CBC.—Materials. Boro' S.

**JANUARY 21**

KIDSGROVE UDC.—Materials. E&S.

**JANUARY 25**

BRIDGWATER BC.—Materials. Boro' T.

**JANUARY 28**

GT. YARMOUTH CBC.—Fixed price tenders for:—(a) Oil-fired central heating installation, and (b) electrical installation for new police station headquarters at Howard-st. South. Boro' E. Dep. £2 2s.

### MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

**JANUARY 4**

SOUTH CARDIGANSHIRE WATER BD.—13,000yd. of 8in. steel and spun-iron water mains, etc., from Llandyfriog to Tan-Y-Groes. Rofe & Raffety., engrs. 9 Brewer's Green, Buckingham Gate, SW1. Dep. £ 2 2s.

(R) WYCOMBE RDC.—3,400yd. of 6 and 9in. dia. spun-iron and stoneware sewers, manholes and connections to existing sewers, etc., at Berghers Hill and Hedsor areas. D. Balfour & Sons, engs., 131 Victoria-st., SW1. Dep. £5.

**JANUARY 13**

BASINGSTOKE BC.—6,500 sq. yd. of 8in. un-r.c. carriageway, with bituminous macadam surfacing, etc., at Western-way. Boro' S. Dep. £2 2s.

BATTLE RDC.—4,450yd. of 7in. stoneware sewers, including manholes, etc., and sewage treatment works, etc., at Burwash. John Taylor & Sons, engrs., Artillery-hse., Artillery-row, SW1. Dep. £5.

**JANUARY 14**

WORCESTER CITY C.—2,200 lin. yd. of kerb; 12,000 sq. yd. of precast concrete paving; 22,000 sq. yd. of turf; 3,400 sq. yd. of carriageway surfacing, and 800 sq. yd. of new roadway, etc., at Warndon housing estate (part 2). City E&S. Dep. £5 5s.

**JANUARY 20**

DRIFFIELD UDC.—Proposed sewerage works at Little Driffield. John Dossor, Ccl.'s const. eng., Monk Bar-chbrs., York. Dep. £5 5s.

### GENERAL BUILDING WORK (LONDON)

BLOOMSBURY.—Hotel.—A new hotel, to be known as the Hotel President, is planned for the corner of Russell-sq. and Guildford-st., Bloomsbury, WC1. The sponsors are Imperial London Hotels Ltd. Subject to planning approval, the building is to be of seven floors above ground with the main frontage and entrance in Guildford-st. Six shops will be situated on the Russell-sq. frontage. The scheme, which is to a design by C. Lovett Gill & Ptnrs., architects, is est. to cost about £1m. If full approval is given the sponsors hope that the hotel will open towards the end of 1961.

FULHAM.—Open Air Theatre.—The closing date for tenders in respect of a proposed open air theatre at Bishop's Park has been extended until December 16.

ISLINGTON.—The following appointments have been made in connection with the proposed development at Goldsmith-pl.:—E. C. P. Monson, architects and O. E. Parratt, quantity surveyors.

LONDON.—Rebuilding.—Girdlers' Hall in Basinghall-st., EC, and Bakers' Hall in Harpla., EC, both destroyed in air raids, are to be rebuilt on their old sites.

WEST HAM.—Development Scheme.—West Ham Council have been given Ministry of Housing approval for a £480,556 development scheme in the Andrew-st. area of Silvertown. The scheme is for 42 houses, 76 maisonettes, 94 flats, 52 garages, six shops, a branch library and a community centre.

WIMBLEDON.—Shops, offices, etc.—BC has granted provisional permission to application by RACS, c/o Erdman & Co., 6 Grosvenor-st., W1, to erect shops, offices, petrol-filling station and residential accommodation on sites of 165-7 Broadway, SW19, existing buildings to be demolished.

WIMBLEDON.—Flats.—BC has granted provisional permission to outline application by Colets, Contractors, 283 Maldon-rd., W1, Cheam, Surrey, to erect three two-storey blocks of four flats and two blocks of four garages, 18 Cambridge-rd., and additional two units and six garages, 16 Cambridge-rd.

WIMBLEDON.—Flats.—BC has granted provisional permission to outline application by Gleesons, c/o Duncan Thomson (F), 49 Hill-rd., SW19, to erect on site of 32 The Downs, two-storey block of six flats fronting Worple-rd., and six garages.

WIMBLEDON.—Houses.—BC has granted provisional permission to application to develop land at 51 Parkside and Bathgate-rd., with a proposed new road between Somerset-rd. and Seymour-rd., by a total of 22 houses.

## (PROVINCIAL)

BAKEWELL.—Derbyshire CC propose new fire station adjoining Baileys Mill, Buxton-rd.; R. Smith (Contractors) Ltd., Sheffild, propose private housing development at Burton Close estate.

BINGHAM.—RDC approved erection of 200 houses at Cotgrave for Coal Industry Housing Assn.

BIRMINGHAM.—A new £550,000 physical education and sports centre is to be built for Birmingham University. Work is to start next year. Chamberlin, Powell & Bon, architects.

BLACKPOOL.—BC approved layout plans for residential development at Chipping Grove, Grange Park extension; Manchester Regional Hospital Bd. propose new pathology laboratory at Victoria Hospital.

BOLTON-LE-SANDS.—Makinson & Shellcross, Morecambe, propose 160 houses.

CHEADLE.—G. Wimpey & Co. Ltd. propose 66 houses and bungalows at St. Anne's Park estate, Heald Green.

CHESTER.—Liverpool Regional Hospital Bd. propose new outpatients' department at Royal Infirmary, £200,000 est. Work to commence in 1960.

CONSETT.—Plans are in hand for a new £20,000 Methodist Church at Leadgate, Tasker & Ptnrs., 25 New Bridge-st., Newcastle-on-Tyne, architects; Arndale Property Trust, Bank-st., Bradford, are seeking permission to erect retail shops on site of Queen's Hotel, Middle-st., Consett.

CRAYFORD.—Three blocks of flats are incorporated in a building scheme for Arthur-st. and Boundary-st., Slade Green, which is planned to begin by late spring next year. The flats will have 13 storeys and will be the highest to be built in Kent. Est. cost is £500,000.

EASINGTON (Co. Durham).—M. D. Lilley & Son, Back Woods-terr., Murton, are seeking permission to build 54 houses, a house and shop at Cold Hesledon; RDC has received Ministry sanction for 39 bungalows at Easington, and 47 at Murton, by direct labour.

ENNERDALE (Cumberland).—RDC to apply to Ministry for sanction to build 14 bungalows at Cleator Moor, 50 houses at Parton, 50 at Frizington, 13 bungalows at Egremont, and 50 houses for general needs. Plans by Surveyor.

ESTON (Yorks).—R. Dawkins, 14 Thirlmere-cres., Normanby, Yorkshire, has submitted outline proposals to UDC for a residential hotel and dance hall at South Bank.

FELLING (Co. Durham).—William Leech Ltd., St. James-st., Newcastle-on-Tyne, to proceed with housing developments at South Wardley farm.

FYLDE.—RDC to erect a further 117 houses at Springfield Atomic factory.

GLOSSOP.—TC propose extensive alterations and modernisation work at Public Baths.

HALSTEAD.—Loan consent for 32 houses on two sites at Park Fields estate is being sought by UDC.

IoW.—An outline application from Ronson Products, Ltd., to build a 350,000 sq. ft. factory at Cowes, IoW., for the manufacture of domestic electrical appliances, has been approved by the Isle of Wight County Planning Com.

LEEDS.—TC propose 88 dwellings at Swinnow and Moor Grange estates; TC have appointed Braithwaite & Jackman, Leeds, as architects for extensions at Stainbeck county sec. girls sch., and G. A. Burnett, Leeds, for extensions and adaptations at City of Leeds Training College.

LLANDUDNO.—North Wales Marine Industries Ltd., propose new factory at Llandudno Junction; UDC approved sketch plans for new club houses at Maesdu Golf club.

LOUGHBOROUGH.—A £42,000 scheme for main constructional work at Loughborough's Central bus station and car park has been adopted by TC's Highways and Planning Com.

MANCHESTER.—RC Diocese of Salford propose new halls of residence for university students at Wilmslow-rd. and Cromwell Range, Fallowfield. £200,000 est. Reynolds & Scott, 9 Albert-sq., Manchester, architects.

MANSFIELD.—BC propose new community centre at Ladybrook estate. £20,000 est.

MARKET DRAYTON.—UDC to consider creation of new market at Booth's Yard, Cheshire-st.

MIDDLESBROUGH.—Kitching & Co., 21 Albert-rd., Middlesbrough, are the architects for alterations and additions at Newton-st. for R. Sowerby & Son, and alterations and additions to the 'Shakespeare Hotel,' Linthorpe-rd. for Bass, Ratcliffe and Gretton; T. Duncanson & Sons, Middlesbrough, are to erect 41 pairs of semi-detached bungalows at Malvern-dr.; Thomas Barrett & Sons & Ptnrs., Grange-rd., Middlesbrough, have been appointed quantity surveyors by the Newcastle Hospital Bd. for department of physical medicine at Middlesbrough General Hospital. Board's Chief A. is P. H. Knighton.

MIDDLESBROUGH.—TC to build 35 houses at Pallister Park. Boro' E. is G. Kenyon. Middlesbrough Methodist Church expect to begin work next year on new church at Nunthorpe; EC have approved sketch plans for additions at St. Thomas's RC sec. sch. at est. cost of £37,000. Plans by Ed. A, K. J. Caton.

NEWCASTLE-ON-TYNE.—R. Turley & Ptnrs., Newcastle, are the architects for office and warehouse in Blandford-st. for J. Blair; Williamson & Ptnrs, Newcastle, have prepared plans for alterations at Claremont-hse., Claremont-rd., for proposed in-patient unit, for department of psychological medicine, Royal Victoria Infirmary; factory additions are proposed at Albion-rd. for Domestos Ltd. Cackett, Burns Dick & Mackellar, 21 Ellison-pl., Newcastle, architects; plans have been approved for a teachers' training college, three hostels, etc., at Benton for Northern Counties Training College of Domestic Science, Warrin & Netts, architects, in collaboration with City Ed. A.; plans have been approved for a 15-storey block of flats (540 units) at Westgate-rd., Pottery Bank, and Church-st. City A. is G. Kenyon.

NEW FOREST (Hants).—RDC to apply for planning permission to erect houses on 30 acres of land north of Rollestone-rd., Holbury.

NEWPORT.—Housing Com. to build 96 maisonettes in four-storey blocks at Ringland. Est. cost £189,159.

NEWTON.—A £50,000 scheme to provide 32 flats at Canal-rd. playing fields has been approved by the UDC.

NORTHUMBERLAND.—EC has approved final plans and estimates at £172,000 for a sec./technical sch. at Haydon Bridge. County A. is C. C. Brown.

RUNCORN.—Plans submitted to UDC:—22 houses at Picow Farm-rd. for Mogles Ltd.; alterations and extensions at 61, Bridge-st. for Lennons Ltd., Corporation-st., St. Helens; amenity building at Castner Kellner Works for ICI Ltd.

RUSHTON.—CoE Auth. are to commence work on phase 1 of new sch. off Harwood-st. in 1960. Est. cost £34,000.

SALISBURY.—An application is to be made to MH&LG for an improvement grant for 82 houses at Devizes, Coronation, Roman, Roberts and Ladysmith-rds.

SHEFFIELD.—The chemicals division of Newton Chambers and Co. Ltd., Thorncliffe, Sheffield, is to have a new chemical works and central laboratory block, at a cost of more than £300,000. Work will begin early next year clearing the site for the new works, which will replace the present Norfolk Works and the chemical factory.

SMALLTHORNE (Staffs).—RC Auth. propose new church.

SOWERBY BRIDGE.—UDC seek £34,070 loan for 22 houses, Kershaw House and Warley Wood estate, Luddendenfoot.

STAFFORD.—English Electric Co. Ltd. propose extensions to their factory. Work to commence in 1960. Est. cost £1,500,000.

STANDISH.—UDC propose 24 bungalows for aged persons at Broomfield.

STANLEY (Co. Durham).—T. V. Raper, 17 Coniscliffe-rd., Stanley, is to erect houses and bungalows at Coniscliffe-rd. area, to plans by Fennell & Baddiley, Chester-le-Street, architects.

SUNDERLAND.—W. & T. R. Milburn, Sunderland, are the architects for church and parsonage at Pennywell-rd. for Evangelical Lutheran Church of England Executive Council; Boro' A., H. C. Bishop, has prepared plans for additions to Southmoor sec. technical sch. and 14 aged people's bungalows at The Oval, Southwick; Ardin & Brookes, London, W1, are the architects for new retail premises with showroom and staff accom-

### *Contracts Placed*

*We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.*

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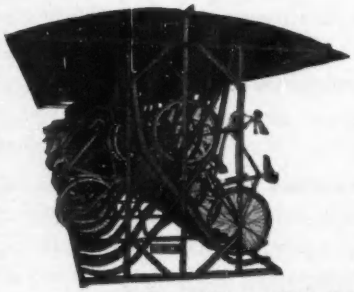

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modation at High-st. for Metrovincial Properties Ltd.; Pattison Bros., 5 Killingworth-dr., Sunderland, are to erect houses at Ettrick Grove.

SUTTON COLDFIELD.—BC approved plans for branch library and clinic at Minworth.

SWANSEA.—Work is expected to start in March on Swansea's new arcade, plans for which were approved recently by the Municipal Building Plans Com. Sponsored by Broadweir and Southern Properties Ltd., the arcade will run from Kingsway to Oxford-st. on the western side of the Plaza cinema and provide accommodation for 30 shops. 18 two-storey shops will be in the arcade, four three-storey ones will front the Kingsway and eight three-storey shops will front Oxford-st. Plans have been prepared by Clifford G. Vaughan & Ridgewell, chartered architects, of St. James Gardens, Swansea.

THINGOE.—Homes to be built under RDC's 1960 building programme will be erected at Lammas-close, Bardwell; Lev-rd., Barrow; Lancaster-close, Chedburgh; Chapel Cottages site, Chevington; Cox-la., Gt. Barton; Thelnetham-rd., Market Weston; and Mickley Green, Whepstead.

THORNABY-ON-TEES.—BRS (Pickfords), Ltd., High Holborn, WC1, are seeking permission to develop land at Middlesbrough-rd., Thornaby.

TYNEMOUTH.—R. Sleightholme, Ltd. Barras-ave., West Blyth, are seeking permission to develop 120 acres of land at Shiremoor Farm, New York, on behalf of the Duke of Northumberland; J. M. Clark & Son, land agents, 11 Eldon-sq., Newcastle-on-Tyne, acting on behalf of the Duke of Northumberland, propose residential developments on 70 acres of land near Preston North-rd.; Hall & Woodall, Cullercoats, are planning three-storey flats at Monkhouse estate; William Leech, Ltd., St. James-st., Newcastle-on-Tyne, are to erect 67 houses at Murton Grange, estate.

WEST HARTLEPOOL.—The TC has approved estimates submitted by Boro' A. for family group home costing £4,700 at Bonnyrigg Walk; further homes are being earmarked at Owton Manor estate, and Rift House estate; TC has asked D. Balfour & Sons, constg. engrs., London, to prepare a report on the best methods of sewage disposal at Burn sewer outfall, as council is considering the construction of a submarine outfall there.

WIGAN.—BC propose ambulance depot, £20,300 est.; BC to prepare scheme for multi-storey car park; Mecca Ltd. have purchased Hippodrome site at King-st. for new dance hall; RDC approved plans for 19 bungalows at Miles-la., Shevington, for J. J. Mason, Standish.

## TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ASHINGTON.—64 flats at Sixth-ave. for UDC. S: M. Jameson. (A) Direct labour, £76,802.

BANGOR (North Wales).—18 aged persons' flats at Caernarvon-rd. for BC. (A) Gregory Housing Ltd., Worthing, £22,893.

BEDLINGTONSHIRE.—60 steel-framed houses at Morpeth-rd. housing site for RDC. (GD) Direct labour, £90,158.

BIRMINGHAM.—Extension of works at Bromford-la., Birmingham, for Golf Ball Developments Ltd. (A) C. Bryant & Son Ltd., £20,000; showrooms at Lower Essex-st., Birmingham, for Rich & Pattison (Birmingham) Ltd. (A) C. Bryant & Son, Ltd., £44,000.

BLACKBURN.—Hostel at Feniscliffe for BC. (A) Direct labour, £41,083.

BLACKBURN.—New premises at Montague-st. for Walsh Bros. (Blackburn) Ltd. Campbell & Driver, Richmond-terr., Blackburn, architects. (A) James Whittaker & Sons Ltd., Blackburn.

BOLTON.—Adaptation, at Tonge Fold county sec. sch. for BC. (A) W. Lionel Gray (1933) Ltd., Hospital-rd., Farnworth.

BROMLEY.—New Bromley College of Art at Bromley Common for Kent CC. George, Trew & Dunn, London, architects. QS: A. J. Willis & Thompson. (RA) Rush & Tompkins Ltd.

CARDIFF.—Fixed price tenders for:—(1) 57 dwellings at Fern-pl. (two contracts). (2) 184 dwellings at Manorbier-cres. (three contracts), for City C. City A: J. Dryburgh. Quantities by City A. (A) Group I, George Wimpey & Co. Ltd., London, £122,986; 2, Blakemore & Knight, Ltd., 'Greenacres,' Marshfield, Cardiff, £44,845; 3, Rosser Thomas & Co. Ltd., Dumballs-rd., Cardiff, £131,706.

CASTLE WARD.—Proposed main drainage scheme at Ponteland, Darras Hall and Woolsington, for RDC. Constg. E: E. G. Lediard. (GD) Richard Costain Ltd., 16 Great North-rd., Newcastle-on-Tyne, £43,481.

CHESTER.—Dwellings at The Mount for City C. (RA) John Hughes & Co. Ltd., £12,574.

CHESTERFIELD.—44 houses and 18 flats at Dunston Hall estate for BC. (A) Direct labour, £80,500 (approx.).

CROYDON.—48 flats and 55 garages at Foss-ave/Thorneloe-gdns., Waddon estate, for CBC. (A) A. J. Wait & Co. Ltd., New Malden, £88,381.

DAGENHAM.—102 dwellings at Limbourne-ave. for BC. (GD) Direct labour, £181,824.

DARLINGTON.—35 houses at Firth Moor estate for TC (A) Direct labour; 36 houses at Firth Moor estates for the TC. Boro' A. is E. A. Tornbohm. (A) R. Blackett & Sons, 63 Bondgate, Darlington, £53,462.

DUDLEY.—16 flats and six garages at Stourbridge-rd. for BC (A) Baker Bros (Builders) Ltd., Kent-st., Upper Gornal, Sedgley, £27,757.

DURHAM.—Mod. sch. at Newton Aycliffe for CC. (A) Bell & Ridley Ltd., North-rd., Durham, £145,949.

EXETER.—Following works at Beacon-la. housing estate for City C:—106 dwellings (group 16). (A) E.B.C. & Sleeman Ltd., £187,929; 84 dwellings (group 17). (A) Staverton Contractors Ltd., £134,004; 50 dwellings (group 18) and 25 dwellings (group 19). (RA) Woodman & Son (Builders) Ltd., £73,934 and £31,189, respectively.

FRIERN BARNET.—10 bungalows and seven houses at East-cres. for UDC. (RA) Gregory Housing Ltd., £28,110.

GRAVESEND.—Construction of Mark-la. overflow sewer for BC. (RA) Marples Ridgway & Ptnrs., London, £134,551.

ISLE OF MAN.—Erection of Rushen sch., Castletown, for EC. Davidson, March & Co., architects. (A) McCormick & Davies Ltd., Douglas, £156,195.

LEEDS.—Seven-storey office block at South Parade, Leeds, 1, for The London & Lancashire Insurance Co. Ltd. Charlton & Crowther, architects. (A) Wm. Irwin & Co. Ltd., Leeds, 3.

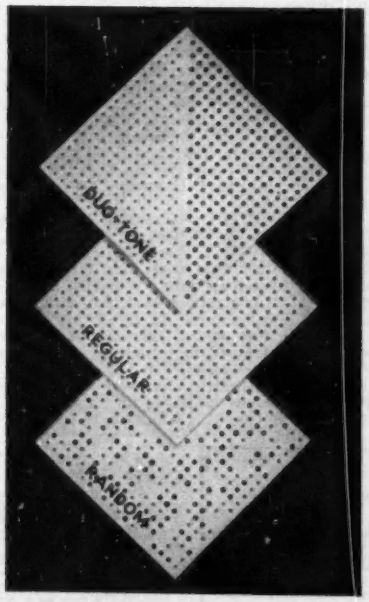
LEWISHAM.—52 maisonettes and 17 garages at Silverdale for MBC. (GD) Allen Fairhead & Sons Ltd., £139,620.

LONDON.—Research and development centre at Peterborough-rd., Fulham, for the North Thames Gas Brd. E. R. Collister & Associates, architects and const. engrs. (A) Trollope & Colls Ltd., £1,367,163.

LONDON (British Railways).—Contract let by Eastern Region:—Samuel Butler & Co. Ltd., Bilton-way, Brimsdown, Enfield, Middx., repairs to underline bridges No. 1891 and 1892 at St. James' Street Station.

LONDON (British Railways).—Contracts placed by Southern Region:—Bricklayers Arms, construction of oil fuelling station, Taylor Woodrow Construction Ltd., Southall, Middx.—Brookwood Station, new car park, W. H. Gaze & Sons Ltd., SW15.—Waterloo Station, repairs to subway, Winter & King Ltd., SW20.—Nine Elms Motive Power depot, repairs to engine shed, Maurice Hill Ltd., Horndean, Hants.—Hurst Green Station, installation of central heating and hot water service, Mould & Blaydon Ltd., Epsom, Surrey.—Portsmouth Harbour, repairs to concrete piles, The Cement Gun Co. Ltd., Hanworth, Middx.—Waterloo Station, asphalting to walkways on roof, Durable Asphalte Co. Ltd., N1.—Wimbledon Park-Durnsford-rd. repair shop, new boiler house, Caffin & Co. Ltd., WC2.—Chard Junction, reconstruction of bridge, Aubrey Watson Ltd., Henley-on-Thames, Oxon.—Dover Marine Town Yard, new staff accommodation, R. Corben & Son Ltd., Maidstone, Kent.—Tilbury/Gravesend Ferry, Gravesend Town Pier Pontoon, repairs and renovations, W. R. Payne & Sons Ltd., Westcliffe-on-Sea, Essex.—Eastleigh Carriage & Wagon Works, rebuilding of sawmill crosscut annexe, Taylor Woodrow Construction Ltd., Southall, Middx.

(GD) LONDON (MoW).—Contracts placed for week ended December 12:—*Derbyshire:* Saltergate, Chesterfield, erection of automatic telephone exchange, Geo. F. Kirk Ltd., Manor-wks., Manor-rd., Chesterfield. *Essex:* Post Office engineering depot, Southend, removal of spoil heaps, T. Phillipson Ltd., Hall-st., Long Melford, Suffolk. *Glamorgan:* Post Office engineering depot, Gors-rd., Swansea, alterations, Robert M. Douglas (Contractors) Ltd., Gors-rd., Swansea. *Lancashire:* Ministry of Labour and National Service Employment Exchange, Green-la., Old Swan, Liverpool, extension, Wm. Tomkinson & Sons Ltd., 7/31 Great Newton-st., Liverpool; Inland Revenue Office, Royal Liver-bldgs., Liverpool, adaptations, James Tomkinson & Co. Ltd., 22 Roscommon-st., Liverpool, 5; Post Office Parcels Post, Walton-gdns., Liverpool, internal decorations, R. Costain & Sons (Liverpool) Ltd., Mersey View, Waterloo, Liverpool, 22. *London:* Royal Naval College, Queen Mary-bldg., Greenwich, SE10, reconstruction of sanitary accommodation, Walker, Clinging & Co., 16 Perry Hill, SE6; Natural History Museum, SW7, erection of electric goods lift, Aldous & Campbell Ltd., 102 Great Dover-st., SE1; Government Offices, Great George-st., SW1, reinstatement of room 72, Howe & White Ltd., 35 Manor-rd., Wallington, Surrey. *Middlesex:* National Physical Laboratory, Teddington, external and internal decorations, Architectural Decorators Ltd., 79 Eccleston-sq., SW1; National Physical Laboratory, Teddington, external and internal decorations, P. J. Hartel (London) Ltd., 1 Montague-st., Russell-sq., WC1; National Physical Laboratory, Teddington, erection of wind tunnel, etc., Simmons &

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Hawker Ltd., Southdown-wks., Point Pleasant, SW18. *Midlothian:* Royal Scottish Museum, Chambers-st., Edinburgh, internal redecoration, Rolland Decorators Ltd., 10 Newington-rd., Edinburgh. *Shropshire:* Ministry of Supply, Overley Hill, Wellington, extension to tool room, Hotchkiss & Townsend, Central-chbrs., 15 Pride Hill, Shrewsbury.

(GD) LONDON (War Dept.).—Works contracts placed for Week ended December 11: —*Berkshire:* (Sandhurst), building, Wilson Lovatt & Sons Ltd., London, SW1. *Hampshire:* (Perham Down), painting and electrical, Arundel (Contractors) Ltd., Bradford, Yorks.; and Electra (Birmingham 1935) Ltd., Eastbourne; (Aldershot), painting, Arnold Sharrocks Ltd., Aldershot.

LOUGHTON.—Extensions at Brook county sec. sch., Loughton, Essex, for CC. (A) S. Cronin & Sons Ltd., £110,000.

LUTON.—Fixed price tenders for 19 shops with maisonettes over, with garages and ancillary works, at Whipperley Ring, Farley Hill Housing estate, for BC. Quantities by Boro' A's Dept. (A) Drabble Construction Ltd., Vicarage-rd., Bletchley, Bucks., £115,813.

MANCHESTER.—Rebuilding of London-rd. Station for British Railways (phase 3). (A) Wm. Townson & Sons Ltd., Higher Swan-la., Bolton, £500,000 (approx.).

MIDDLESBROUGH.—Baptist Church at Beverley-rd. (A) R. E. Coleman Ltd., 63 Western-hill, Durham City; offices at James-st. for Middlesbrough Casements Ltd. (A) Stephen Coates Ltd., Langbaurgh-pla., North Ormesby, Middlesbrough.

MORLEY.—72 flats for BC. (A) Homeville Co. Ltd., Maidenhead, Berks. £100,634.

NEWPORT (Mon.).—Construction of a 68in. wide hot strip mill for Richard Thomas & Baldwins. (A) Davy & United Engineering Co., Sheffield. £4,000,000.

NORTHUMBERLAND.—First stage of proposed prim sch. at Wooler-st. for CC. (A) Cawood Wharton & Co. Ltd., Harrogate, £19,912.

NOTTINGHAM.—205 houses, eight bungalows, 48 flats and 36 garages at Bestwood Park estate for TC. (A) Rostance (Builders) Ltd., King's Meadow-rd., Nottingham, £367,362.

ORRELL.—Fixed price tenders for 12 bungalows at Station-ave., off Church-st., for UDC. E&S: S. Culbert. (A) W. Whitton, Jaxons-chbrs., Hallgate, Wigan.

RUNCORN.—Market hall and 16 kiosk shops at Church-st. for UDC. (A) W. E. Jones Ltd., King-st., Middlewich, £61,148.

SHEFFIELD.—217 dwellings and 41 garages at Rolleston neighbourhood unit of Gleadless Valley estate for Housing Development Com. (RA) M. J. Gleeson (Contractors), Ltd., £347,888.

SOUTHAMPTON.—(1) 63 houses at Thornhill, and (2) 14 flats at Cuckmere-la., Millbrook, for CBC. Boro' A: F. L. Wooldridge. (GD) (1) Wain Bros. Ltd., Stratton St. Margaret, Swindon, Wilts., £100,709, and (2) Holdsworth Construction Co. Ltd., 21 King's Park-rd., Southampton, £22,885.

STOCKPORT.—Office accommodation for waterworks dept. of BC at site in St. Peter's Vicarage. (RA) A. McLellan Ltd., £49,542.

STRATFORD-ON-AVON.—16 flats and 24 houses at Masons-rd. estate for TC (A) A. W. Houghton & Co. Ltd., £57,801; 78 dwellings and 15 garages at Blackford Pastures, Henley-in-Arden, for RDC. (GD) Gregory Housing Ltd., Sussex, £107,824.

STOCKTON-ON-TEES.—55 houses at Hardwick estate for TC. (A) R. Costain Ltd., Great North-rd., Newcastle-on-Tyne.

SUNDERLAND.—(1) 72 dwellings and 12 flats at Farringdon estate, and (2) 54 dwellings at Thorney Close estate for TC. Boro' A. is H. C. Bishop. (GD) Direct labour (1), and R. G. Finlay Ltd., Ryhope Joinery-wks., Ryhope, Sunderland (2).

SWINTON AND PENDLEBURY.—16 flats for BC. Boro' E&S: Charles R. Smith. QS: E. R. Babbs & Sons Ltd., Manchester. (A) E. Tonge & Sons Ltd., Station-rd., Swinton, £20,176.

WHITEHAVEN.—Following for TC:—144 houses and 16 old people's bungalows at Hesingham. (A) Direct labour.

WIMBLEDON.—Demolition and construction of r.c. factory for Cona Coffee Machine Co. (3) Sewell & Richardson Ltd., Ellson-wks., Wimbledon.


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# OFFICIAL ANNOUNCEMENTS

**COMPETITIONS CONTRACTS PUBLIC APPOINTMENTS**

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**PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE**

## CONTRACTS

### SOMERSET COUNTY COUNCIL.

EDUCATION COMMITTEE.

Applications are invited from Building Contractors wishing to submit a fixed price TENDER for the ERECTION OF CLEVEDON SECONDARY MODERN SCHOOL (520 PLACES).

Applications should be submitted to the undersigned not later than MONDAY, 4th JANUARY, 1960, and should contain an assurance that the applicant has the necessary financial and material resources and organisation to undertake the work.

The Committee reserves the right to select from the applicants a list of firms who will be invited to submit Tenders, and does not bind itself to accept the lowest or any Tender.

A deposit of £2 2s. 0d. will be required from those firms selected which will be returned upon receipt of a bona fide Tender or the return of the Bill of Quantities.

No Tender will be considered unless submitted in the endorsed envelope which will be provided.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

The Crescent,
Taunton.

### BLETCHLEY URBAN DISTRICT COUNCIL.

SELECTIVE TENDERING.

The Council is about to commence a large programme of Building and Civil Engineering Work in connection with the second stage of expansion under the Town Development Act, 1952, for the reception of Population and Industry from the Greater London Area.

The work is likely to comprise the ERECTION OF SOME 1,500 DWELLINGS, as well as FACTORIES, SHOPS, and OTHER BUILDINGS, and the CIVIL ENGINEERING WORK in connection therewith, including a large BOX-SECTION SURFACE WATER SEWER.

TENDERS for these works will be by invitation from approved lists of Contractors, and the lists will be divided up into different categories according to the size of the Contracts, which are expected to range between £10,000 and £500,000.

Firms wishing to be considered for inclusion on these lists should apply to the undersigned for full details of Contracts envisaged, and they may then make firm application for the particular types and classes of work for which they are best suited.

Formal applications are to be submitted by 15th JANUARY, 1960.

J. F. SMITHIE, M.I.Mun.E.,
Engineer and Surveyor.

Council Offices,
Bletchley.
11th December, 1959.

### SOMERSET COUNTY COUNCIL.

WELFARE SERVICES COMMITTEE.

Applications are invited from Building Contractors wishing to submit a FIXED PRICE TENDER for carrying out ALTERATIONS AND EXTENSIONS at ROWDEN HOUSE, FROME.

Applications should be submitted to the undersigned not later than MONDAY, 4th JANUARY, 1960, and should contain an assurance that the applicant has the necessary financial and material resources and organisation to undertake the work.

The Committee reserves the right to select from the applicants a list of firms who will be invited to submit Tenders, and does not bind itself to accept the lowest or any Tender.

A deposit of £2 2s. will be required from those firms selected which will be returned upon receipt of a bona fide Tender or the return of the Bill of Quantities.

No Tender will be considered unless submitted in the endorsed envelope which will be provided.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

The Crescent,
Taunton.

### COUNTY BOROUGH OF READING.

TO BUILDING CONTRACTORS

FIRM PRICE TENDERS are invited for the ERECTION OF 6 SHOPS WITH MAISONETTES OVER, 12 GARAGES and 2 PUBLIC CONVENIENCES, and ONE BLOCK OF 4 ONE-BEDROOM FLATLETS all in traditional construction in Northumberland-avenue/Foxhays-road, Whitley Estate, Reading. General conditions and drawings may be inspected and Bills of Quantities, etc., obtained from the Borough Architect, Town Hall, Reading, on application to him, accompanied by a cheque for £2 2s. (made payable to the Reading Corporation) which will be refunded on receipt of a bona fide Tender not subsequently withdrawn. Tenders to Town Clerk, Town Hall, Reading, by NOON, 15th JANUARY, 1960. No Tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any Tender.

### HAVERHILL URBAN DISTRICT COUNCIL.

ERECTION OF 8 GARAGES IN WESTERN-AVENUE, HAVERHILL.

TENDERS are invited for the ERECTION OF A BLOCK OF EIGHT GARAGES together with a concrete apron and other ancillary works at Western-avenue, Parkway Estate, Haverhill. Specification, Bills of Quantities and Form of Tender may be obtained from, and plans inspected at, the office of the Engineer and Surveyor to the Council.

Tenders must be returned to the undersigned, endorsed "Garages" by not later than 12 noon on SATURDAY, 9th JANUARY, 1960.

The Council do not bind themselves to accept the lowest or any tender.

W. C. BLAKE,
Clerk of the Council.

Council Offices,
Haverhill.
15th December, 1959.

### N.A.T.O. COMMON INFRASTRUCTURE.

SLICES VII AND VIII.
NAVAL BASE INSTALLATIONS.

FINAL NOTICE IS HEREBY GIVEN that International Competitive Bids will be invited on or about 17th FEBRUARY, 1960, for the SUPPLY AND INSTALLATION OF THE BOILER PLANT and associated equipment for a P.O.L. Storage Depot to be constructed in the Loch Striven area of Scotland.

2. The approximate total value of the works is £60,000 and the contract will comprise of the supply and installation of:—

3 No. 13,000 lb./hour each Economic type Oil-fired Boilers, complete with Superheaters and full ancillary equipment including Fuel Oil System, Feeder Water System, Water Treatment, De Superheater, Induced Draft Fans, Station Pipe Work, etc.

3. The work will be carried out as one contract which will be undertaken as a sub-contract within the framework of the Main Contract for the construction of the depot. A Final Notice in respect of the main construction contract has already been published.

4. It should be noted that the importation of labour from sources outside the United Kingdom may be subject to restriction and that permission could, in any case, only be given on an undertaking that the Contractor wou'd pay rates of wages and abscnce hours and conditions of labour not less favourable than those established for U.K. labour for the trade or industry in the same area.

5. The closing date for the receipt of bids will be 13th APRIL, 1960.

6. Firms wishing to be invited to bid must formally notify their desire by application to the address below by 13th JANUARY, 1960.

7. Within one week of the closing date for the receipt of applications to bid, firms wishing to be invited must forward the following information:—

(i) Statement of financial resources and evidence of financial stability:
(ii) Details of recent major contracts completed for work of a comparable nature, including an indication of the value of each.

8. Enquiries regarding bidding should be addressed to:—

Civil Engineer-in-Chief,
Admiralty,
Chamberlain-way,
Pinner, Middlesex, England,

quoting reference C.E. in C./INFRA/9 (Sub-Contract Boilers).

### BOROUGH OF WREXHAM.

FIXED PRICE TENDERS are invited for:—

24 DWELLINGS at Tanat-way, Queen's Park (North), Wrexham.

Application for details, Tender forms and Bills of Quantities to Borough Engineer and Surveyor, 31 Chester-street, Wrexham, enclosing deposit of £2 2s. 0d. refundable on receipt of a bona fide tender.

Closing date for receipt of Tenders—12 noon, MONDAY, 11th JANUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
December, 1959.

### SITTINGBOURNE AND MILTON URBAN DISTRICT COUNCIL.

ERECTION OF 94 GARAGES ON COUNCIL HOUSING ESTATES, SITTINGBOURNE.

FIXED PRICE TENDERS are invited for the ERECTION OF 94 GARAGES, comprising 40 at Homewood, 44 at North Court and 10 at Quinton, Housing Estates.

Specification and Drawings may be obtained from the Engineer and Surveyor, 89 London-road, Sittingbourne, on payment of £3 3s. 0d. deposit, which will be refunded on receipt of a bona fide tender not subsequently withdrawn.

Tenders are to be sent to the undersigned by 10 a.m. on MONDAY, 11th JANUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

D. ALLEN,
Clerk of the Council.

Council Offices,
76 High-street,
Sittingbourne.
14th December, 1959.

### ASHINGTON URBAN DISTRICT COUNCIL.

64 FLATS,
SIXTH-AVENUE, ASHINGTON.

TENDERS are invited for:—
PLASTERING MATERIALS
PLUMBING MATERIALS
DUSTBINS
SANITARY FITTINGS
DOORS
CARPENTER AND JOINER (TIMBER)
HARDWARE
SUNDRY BUILDING MATERIALS
ELECTRICAL INSTALLATION.

Forms of Tender, Conditions of Contract, Specifications and Bills of Quantities, may be obtained on application to the Engineer and Surveyor, Ashington, enclosing a stamped envelope.

Tenders in plain sealed envelopes endorsed "Tender for . . . . . 64 Flats, Sixth-avenue," must be received by the undersigned not later than 12 noon on THURSDAY, 7th JANUARY, 1960.

JOHN KENT,
Clerk of the Council.

Council Offices,
Ashington,
Northumberland.

### COUNTY BOROUGH OF EASTBOURNE.

TO BUILDING CONTRACTORS.

TENDERS are invited for the CONSTRUCTION OF A SMALL EXTENSION TO THE EXISTING KITCHEN at the Chelsea College of Physical Education, Carlisle-road, Eastbourne, together with some minor internal adaptations.

Applications to tender must be delivered to the Borough Surveyor, 2 and 4 Saffrons-road, Eastbourne, on or before 6th JANUARY, 1960, and must be accompanied by a deposit cheque for £2 2s. 0d. payable to Eastbourne Corporation.

Tendering documents will be issued on 20th January, 1960, and no tender will be considered unless it is sent in a plain sealed envelope addressed to the Town Clerk bearing the words "Tender for Extension to Kitchen, Chelsea College" (but shall not bear any name or mark indicating the sender) and delivered not later than 12 noon on 10th FEBRUARY, 1960. The lowest or any tender will not necessarily be accepted.

F. H. BUSBY,
Town Clerk.

Town Hall,
Eastbourne.
14th December, 1959.

### THE RURAL DISTRICT COUNCIL OF GODSTONE.

12 UNITS—KINGS CROSS-LANE, SOUTH NUTFIELD.

TENDERS are invited for the ERECTION OF 4 BLOCKS OF 12 UNITS TOTAL, ALL IN TWO STOREYS, at South Nutfield, Surrey, comprising ONE BLOCK OF 4 FLATS, TWO BLOCKS EACH OF 3 HOUSES AND ONE PAIR OF HOUSES.

Bills of Quantities, Conditions of Contract, and Form of Tender may be obtained on application to the Council's Engineer and Surveyor at the Council Offices, Oxted, Surrey, on payment of a deposit of £2 2s. 0d., which will be returned on receipt of a bona fide tender and the return of all documents supplied.

Drawings may be inspected at the office of the Engineer and Surveyor during normal office hours.

Sealed tenders, enclosed in a plain envelope endorsed "Tender for 12 Units, Kings Cross-lane, South Nutfield" and addressed to the Clerk of the Council, Council Offices, Oxted, must be delivered not later than noon on WEDNESDAY, 20th JANUARY, 1960.

The Council do not bind themselves to accept the lowest or any tender.

M. HAWORTH,
Clerk of the Council.

Council Offices,
Oxted,
Surrey.

### COUNTY BOROUGH OF PRESTON.

Fixed price TENDERS are invited for the ERECTION OF TWO SHOPS in Langcliffe-road, off Watling-street-road, Brookfield Estate, Preston.

Drawings may be inspected at the office of the Borough Engineer and Surveyor, Municipal Building, Preston, from whom Specification and Bills of Quantities may be obtained on payment of a deposit of £2 2s. 0d., returnable on receipt of a bona fide Tender.

Tenders on the prescribed form (in the official envelope provided and bearing no indication of the sender) must be delivered to the undersigned not later than 10 a.m. on 12th JANUARY, 1960.

W. E. E. LOCKLEY,
Town Clerk.

Municipal Building,
Preston.

### BOGNOR REGIS URBAN DISTRICT COUNCIL.

IMPROVEMENTS TO COUNCIL HOUSES.

FIXED PRICE CONTRACTS.

Fixed Price TENDERS are invited for IMPROVEMENTS TO COUNCIL HOUSES, in three separate contracts.

(a) 47 HOUSES in Collyer-avenue.
(b) 40 HOUSES in Hampshire-avenue and Gravits-lane.
(c) 29 HOUSES in Westloats-lane and Westloats-gardens.

Copies of the Drawings, Specifications and Forms of Tender may be obtained from the Engineer and Surveyor, Town Hall, Bognor Regis on the payment of £2 2s. 0d. deposit for each contract which is returnable upon receipt of a bona fide Tender and the documents.

The Tenders must be returned to the undersigned in the envelope provided not later than the FIRST POST ON TUESDAY, 12th JANUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. W. J. HILL,
Clerk of the Council.

### BOROUGH OF NEW ROMNEY.

ERECTION OF 14 HOUSES, LANGPORT-ROAD, NEW ROMNEY.

Building Contractors desirous of TENDERING for the ERECTION OF THESE 14 HOUSES should submit their names to the undersigned not later than FRIDAY, 1st JANUARY, 1960.

From the names submitted a list of Contractors will be chosen. These will be provided with Bills of Quantities, Form of Tender, etc., on receipt of £2 2s. deposit. The Council does not bind itself to accept the lowest or any Tender.

Further information may be obtained from this office or from the offices of the Architect, Mr. William Ryder, A.R.I.B.A., A.M.T.P.I., Dip.T.P., 21 Bruton-street, Berkeley-square, London, W.1.

D. E. COLLINS,
Town Clerk.

Town Clerk's Office,
New Romney,
Kent.
15th December, 1959.

## COUNTY BOROUGH OF WIGAN.

ERECTION OF 50 DWELLINGS—WILFRED-STREET SITE, OFF SCOT-LANE.

The Council invites TENDERS for the PROPOSED ERECTION of the following DWELLINGS, all of traditional construction.

13 Type "E1" THREE-BEDROOM HOUSES at the end of blocks.
21 Type "E2" THREE-BEDROOM HOUSES in middle and at end of blocks.
8 Type "F1" Corner Blocks comprising TWO FLATS, one and two bedroom.

Tenders to be on a FIXED PRICE BASIS and on Bills of Quantities, which will be available on or after FRIDAY, the 18th DECEMBER, 1959, by application to Mr. G. Keighley, B.Sc., Borough and Water Engineer, Municipal Buildings, Library-street, Wigan, and on payment of a deposit of two guineas (cheques payable "Wigan Corporation"), which will be returned on receipt of a bona fide Tender received before the closing time on the last day of tendering.

Drawings, Conditions of Contract and the Council's Standing Orders may be inspected at the Office of the Borough and Water Engineer during normal office hours by all persons having made the necessary application to tender.

When applying for Bills of Quantities, tenderers should also submit details of similar schemes undertaken by them, together with the names of two independent persons to whom reference can be made concerning such schemes. Evidence should be submitted at the same time that the tenderer will have the organisation and labour to carry out the work expeditiously.

Tenders must be delivered to the Office of the undesigned not later than 10 a.m. on MONDAY, the 1st FEBRUARY, 1960.

ALLAN ROYLE,
Town Clerk.

Municipal Buildings,
Wigan.

## ALCESTER RURAL DISTRICT COUNCIL.

TENDERS FOR HOUSES AND GARAGES, STUDLEY.

Fixed Price TENDERS are invited for the ERECTION of the following:—
40 DWELLINGS.
25 GARAGES
under the Council's Architects, Messrs F. B. Andrews and Son, 95 Colmore-row, Birmingham.

Applications for drawings and bills of quantities to be made to the Surveyor, Council Offices, Alcester, not later than the 4th January, 1960, with a payment of a deposit of 2 guineas, which will be refunded on receipt of a bona fide Tender (cheques to be made payable to the Alcester Rural District Council).

Tenders in plain envelopes endorsed "Tender—Erection of Houses and Garages, Studley" must reach the undersigned not later than 12 NOON on 27th JANUARY, 1960.

J. F. SMITH,
Clerk of the Council.

17th December, 1959.

## PROPOSED R.C. SECONDARY SCHOOL, BRADFIELD-ROAD, URMSTON, FOR THE SALFORD R.C. DIOCESAN TRUSTEES REGISTERED.

BUILDING TENDERS are shortly to be invited for the above contract value approximately £104,000, and General Contractors interested in tendering are to submit their names for consideration, from which a short list will be compiled.

Applications in writing to arrive no later than FRIDAY, 8th JANUARY, 1960, to Mather & Nutter, Chartered Architects, 3 Chepstow-street, Manchester, 1.

## ISLE OF ELY COUNTY COUNCIL.

EDUCATION COMMITTEE.

ISLE OF ELY COLLEGE AND HORTICULTURAL INSTITUTE, WISBECH HORTICULTURAL STATION.

(a) BUILDINGS AT MEADOWGATE-LANE.

(b) ERECTION AND GLAZING OF ALUMINIUM ALLOY GLASSHOUSE.

Building Contractors, and in the case of contract (b) Specialist Erectors also, wishing to submit FIRM-PRICE TENDERS for either or both of the above works should apply to the County Architect, County Hall, March, Cambs., not later than 9th JANUARY, 1960.

Applications should be accompanied by a cheque for £2 2s deposit payable to the Isle of Ely County Council which will be repayable on receipt of a bona fide tender.

Contractors who have not previously executed building contracts or in the case of contract (b) glasshouse erection, for the County Council should enclose particulars of work recently undertaken.

The last date for receipt of tenders for both jobs is 9th FEBRUARY, 1960.

Brief particulars of the two jobs are as follows:

(a) BUILDINGS AT MEADOWGATE-LANE comprise ERECTION OF A PIG AND POULTRY UNIT, approximately 180 ft. x 30 ft., a PAIR OF SEMI-DETACHED DWELLING HOUSES, COMPLETION OF IMPLEMENT BUILDING (frame and roof erected under separate contracts) and CONSTRUCTION OF CONCRETE ACCESS ROAD. Buildings will be in load bearing brickwork with pitched roofs.

(b) ERECTION AND GLAZING OF AN ALUMINIUM ALLOY GLASSHOUSE.

Overall size of glasshouse 157 ft. x 30 ft. The components are being supplied and delivered under a separate contract and will be delivered to site during early MARCH.

R. F. G. THURLOW,
Clerk of the County Council.

## ABERTILLERY URBAN DISTRICT COUNCIL.

HOUSING DEVELOPMENT AT SWFFRYD SITE "C" CRUMLIN.

TENDERS are invited for the CONSTRUCTION OF 126 TRADITIONAL DWELLINGS at the above, comprising blocks of four two-bedroom Flats, and three- and four-bedroom houses of various types.

Applications for the Bills of Quantities and Form of Tender should be made to the undersigned not later than Monday, the 4th January, 1960, and must be accompanied by a deposit of £3 3s. 0d., which will be returned on receipt of a bona fide Tender, or the return of all documents.

The drawings may be inspected by appointment at the Office of the Council's Architects, Messrs. Geo. H. Davies and Hurley, 12 Cross-street, Abergavenny, Monmouthshire.

Tenders, sealed in the envelopes provided, are to be received by the undersigned not later than NOON of FRIDAY, the 12th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. J. WILLIAMS,
Clerk of the Council.

Council Offices,
Abertillery,
Monmouthshire.
18th December, 1959.

## URBAN DISTRICT COUNCIL OF BLAYDON.

SMAILES FARM SITE, ROWLANDS GILL.

TO BUILDING CONTRACTORS.

TENDERS are invited for the ERECTION OF 30 SINGLE-STOREY AGED PERSONS' BUNGALOWS and a TWO-STOREY BUILDING at Smailes Farm Site, Rowlands Gill, Co. Durham. Bills of Quantities, forms of Tender and instructions for returning same can be obtained on application to the undersigned.

Closing date for receipt of Tenders, 23rd JANUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

CHAS. H. MATTHEWS,
Clerk of the Council.

Council Offices,
Blaydon-on-Tyne.
14th December, 1959.

## COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

The West Riding Standing Joint Committee invite TENDERS for a NEW CELL BLOCK AND ADAPTATIONS to the existing building at ECCLESFIELD POLICE STATION.

The contract will be subject to the R.I.B.A. Form of Agreement and applications for Bills of Quantities, etc., should be made to the Divisional Architect, Flint-street, Huddersfield, and received not later than 1st JANUARY, 1960.

Drawings may be inspected at the Divisional Architect's Office, Flint-street, Huddersfield, and at Ecclesfield Police Station.

Tender documents will be issued on FRIDAY, 15th JANUARY, 1960, and sealed Tenders must be submitted to me, the undersigned, at Room 46, County Hall, Wakefield, not later than 12 NOON on FRIDAY, 5th FEBRUARY, 1960.

BERNARD KENYON,
Clerk of the County Council.

14th December, 1959.

## COUNTY BOROUGH OF SOUTHPORT.

TENDERS are invited for the EXTERIOR PAINTING OF THE CASINO, FLORAL HALL, and various structures at the Sea Bathing Lake, on the Pier, Foreshore and Pleasureland.

The work is divided into several contracts and Contractors may tender for any number of contracts.

The work is to be started about the middle of February—some contracts to be completed by 13th April, others by 14th May.

The Specification may be obtained from the Borough Architect and Town Planning Officer's Department, 99/105 Lord-street, on payment of £1 1s. 0d., which sum will be refunded on receipt of a bona fide tender.

Tenders to be delivered to the undersigned by 7th JANUARY.

R. EDGAR PERRINS,
Town Clerk.

Town Hall,
Southport.

## HAMBLEDON RURAL DISTRICT COUNCIL.

PARTIAL DEMOLITION AND REBUILDING OF 5 ABBOTS COTTAGES, DOCKENFIELD.

TENDERS are invited from Building Contractors for the STRUTTING UP OF THE ROOF, DEMOLISHING WALLS AND PARTITIONS, AND THE PARTIAL REBUILDING OF No. 5 Abbots Cottages, Dockenfield.

Specification and Form of Tender may be obtained from the Office of the Engineer and Surveyor.

Tenders in the endorsed envelopes provided are to be returned to the undersigned not later than 12 noon on MONDAY, the 18th JANUARY, 1960.

The Council do not bind themselves to accept the lowest or any tender.

Dated this 21st day of DECEMBER, 1959.

ROBIN J. GARLAND,
Clerk to the Council.

Council Offices,
Bury Fields,
Guildford.

## SEVENOAKS RURAL DISTRICT COUNCIL.

DEANERY-ROAD, CROCKHAM HILL.

FIRM-PRICE TENDERS are invited for the ERECTION OF ONE BLOCK OF FOUR FLATS on the above site.

Form of Tender, Specification and Bills of Quantities may be obtained from the Council's Engineer and Surveyor on payment of a deposit of Two Guineas. The deposit will be refunded after the delivery of a bona fide tender, not subsequently withdrawn.

Tenders must be returned to the undersigned by 10 a.m. on TUESDAY, 26th JANUARY, 1960.

The Drawings and Conditions of Contract may be inspected at the office of the Engineer and Surveyor during normal office hours.

The Council does not bind itself to accept the lowest or any tender.

B. H. EDWARDS,
Clerk to the Council.

"Inglewood,"
Oak- Hill-road,
Sevenoaks,
Kent.
17th December, 1959.

## COUNTY COUNCIL OF ESSEX.

BASILDON BARSTABLE GRAMMAR SCHOOL.

Contractors wishing to submit a TENDER for the ERECTION of the above should forward their names, from which a panel will be chosen and provided with Bills of Quantities which are expected to be available early FEBRUARY, 1960.

The work consists of short-bore piled foundations, reinforced concrete frame and load bearing cross and spine walls, estimated cost £235,000. The private architects for this contract are Messrs. Yorks, Rosenberg and Mardall, London, W.2.

Applications to reach the undersigned not later than 5th JANUARY, 1960.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

**PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE**

## PUBLIC APPOINTMENTS

ARCHITECTURAL ASSISTANT required by the War Department in the Devizes area. Salary assessed according to age, qualifications and experience in the range £739 (at age 28) to £850 per annum. Please apply stating age, qualifications and experience, to C.R.E. North Wilts., Prince Maurice Barracks, Devizes, Wilts.


Pointing the way...
TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

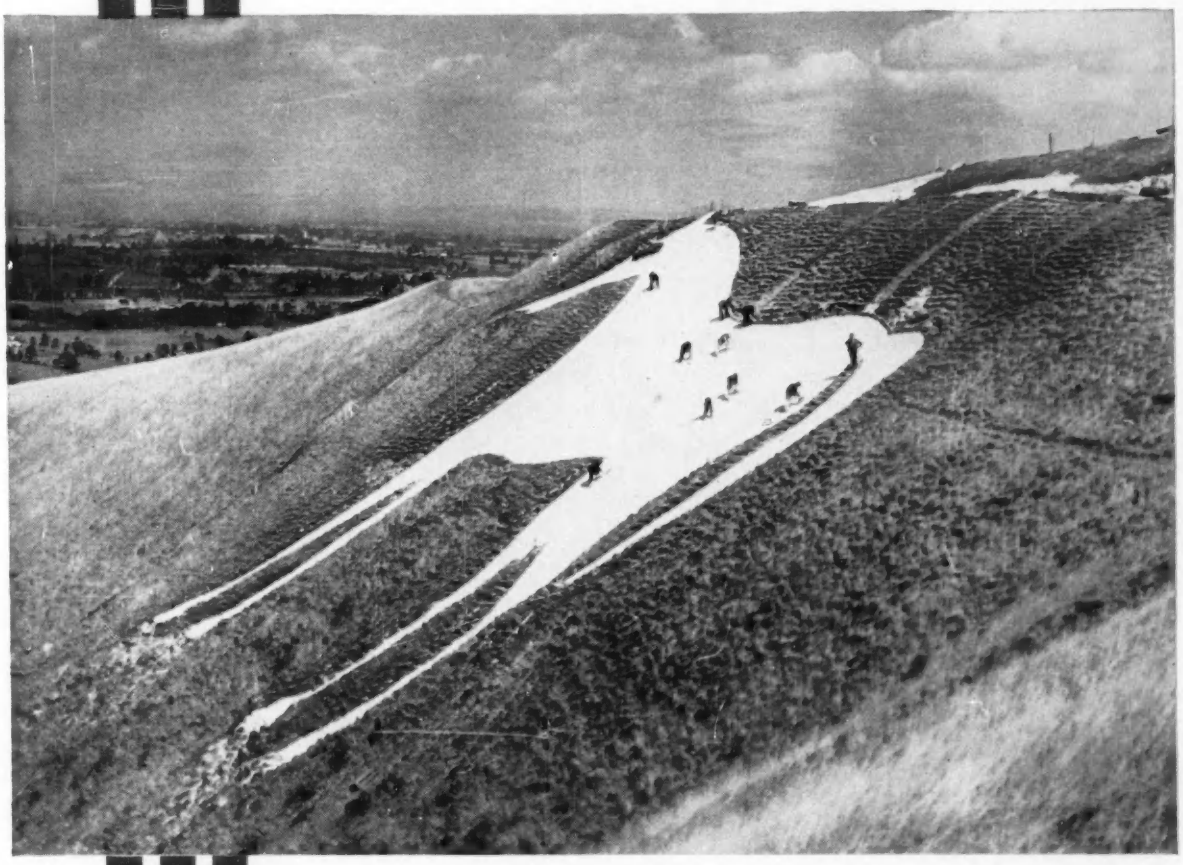
REX

A complete range . . . 3½T, 5E, 7E, 7S, 10S, 12S and 14S with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models. *Illustrated literature and prices on request*

**BLAW KNOX LIMITED** Box No 113
90/94 Brompton Road, London S.W.3. Telephone: KENsington 5151

BK 579

# The White Horse of Westbury*



* When the Ministry of Works recently decided to re-surface the famous White Horse of Westbury, Tunnel White Portland Cement was used. This monument, which commemorates the victory of Alfred the Great over the Danes at Ethandune in the year 878, is now permanently white. The periodic re-cutting of the chalk is no longer necessary.

For full particulars of Tunnel White Portland Cement and our wide range of Coloured Cements please write to our head office.

THE TUNNEL PORTLAND CEMENT COMPANY LIMITED · LONDON ·

**TUNNEL WHITE**

**CEMENT**

A TUNNEL PRODUCT

THE TUNNEL PORTLAND CEMENT COMPANY LTD. 105 Piccadilly, London, W.1. GROsvenor 4100

CVS-17

## COUNTY BOROUGH OF WIGAN.

ERECTION OF 50 DWELLINGS—WILFRED-STREET SITE, OFF SCOT-LANE.

The Council invites TENDERS for the PROPOSED ERECTION of the following DWELLINGS, all of traditional construction.

13 Type "E1" THREE-BEDROOM HOUSES at the end of blocks.
21 Type "E2" THREE-BEDROOM HOUSES in middle and at end of blocks.
8 Type "F1" Corner Blocks comprising TWO FLATS, one and two bedroom.

Tenders to be on a FIXED PRICE BASIS and on Bills of Quantities, which will be available on or after FRIDAY, the 18th DECEMBER, 1959, by application to Mr. G. Keighley, B.Sc., Borough and Water Engineer, Municipal Buildings, Library-street, Wigan, and on payment of a deposit of two guineas (cheques payable "Wigan Corporation"), which will be returned on receipt of a bona fide Tender received before the closing time on the last day of tendering.

Drawings, Conditions of Contract and the Council's Standing Orders may be inspected at the Office of the Borough and Water Engineer during normal office hours by all persons having made the necessary application to tender.

When applying for Bills of Quantities, tenderers should also submit details of similar schemes undertaken by them, together with the names of two independent persons to whom reference can be made concerning such schemes. Evidence should be submitted at the same time that the tenderer will have the organisation and labour to carry out the work expeditiously.

Tenders must be delivered to the Office of the undesigned not later than 10 a.m. on MONDAY, the 1st FEBRUARY, 1960.

ALLAN ROYLE,
Town Clerk.

Municipal Buildings,
Wigan.

## ALCESTER RURAL DISTRICT COUNCIL.

TENDERS FOR HOUSES AND GARAGES, STUDLEY.

Fixed Price TENDERS are invited for the ERECTION of the following:—
40 DWELLINGS.
25 GARAGES.
under the Council's Architects, Messrs F. B. Andrews and Son, 95 Colmore-row, Birmingham.

Applications for drawings and bills of quantities to be made to the Surveyor, Council Offices, Alcester, not later than the 4th January, 1960, with a payment of a deposit of 2 guineas, which will be refunded on receipt of a bona fide Tender (cheques to be made payable to the Alcester Rural District Council).

Tenders in plain envelopes endorsed "Tender—Erection of Houses and Garages, Studley" must reach the undersigned not later than 12 NOON on 27th JANUARY, 1960.

J. F. SMITH,
Clerk of the Council.

17th December, 1959.

## PROPOSED R.C. SECONDARY SCHOOL, BRADFIELD-ROAD, URMSTON, FOR THE SALFORD R.C. DIOCESAN TRUSTEES REGISTERED.

BUILDING TENDERS are shortly to be invited for the above contract value approximately £104,000, and General Contractors interested in tendering are to submit their names for consideration, from which a short list will be compiled.

Applications in writing to arrive no later than FRIDAY, 8th JANUARY, 1960, to Mather & Nutter, Chartered Architects, 3 Chepstow-street, Manchester, 1.

## ISLE OF ELY COUNTY COUNCIL.

EDUCATION COMMITTEE.

ISLE OF ELY COLLEGE AND HORTICULTURAL INSTITUTE, WISBECH HORTICULTURAL STATION.

(a) BUILDINGS AT MEADOWGATE-LANE.

(b) ERECTION AND GLAZING OF ALUMINIUM ALLOY GLASSHOUSE.

Building Contractors, and in the case of contract (b) Specialist Erectors, also, wishing to submit FIRM-PRICE TENDERS for either or both of the above works should apply to the County Architect, County Hall, March, Cambs., not later than 9th JANUARY, 1960.

Applications should be accompanied by a cheque for £2 2s deposit payable to the Isle of Ely County Council which will be repayable on receipt of a bona fide tender.

Contractors who have not previously executed building contracts or in the case of contract (b) glasshouse erection, for the County Council should enclose particulars of work recently undertaken.

The last date for receipt of tenders for both jobs is 9th FEBRUARY, 1960.

Brief particulars of the two jobs are as follows:

(a) BUILDINGS AT MEADOWGATE-LANE comprise ERECTION OF A PIG AND POULTRY UNIT, approximately 180 ft. x 30 ft., a PAIR OF SEMI-DETACHED DWELLING HOUSES, COMPLETION OF IMPLEMENT BUILDING (frame and roof erected under separate contracts) and CONSTRUCTION OF CONCRETE ACCESS ROAD. Buildings will be in load bearing brickwork with pitched roofs.

(b) ERECTION AND GLAZING OF AN ALUMINIUM ALLOY GLASSHOUSE.

Overall size of glasshouse 157 ft. x 30 ft. The components are being supplied and delivered under a separate contract and will be delivered to site during early MARCH.

R. F. G. THURLOW,
Clerk of the County Council.

## ABERTILLERY URBAN DISTRICT COUNCIL.

HOUSING DEVELOPMENT AT SWFFRYD SITE "C" CRUMLIN.

TENDERS are invited for the CONSTRUCTION OF 126 TRADITIONAL DWELLINGS at the above, comprising blocks of four two-bedroom Flats, and three- and four-bedroom houses of various types.

Applications for the Bills of Quantities and Form of Tender should be made to the undersigned not later than Monday, the 4th January, 1960, and must be accompanied by a deposit of £3 3s. 0d., which will be returned on receipt of a bona fide Tender, or the return of all documents.

The drawings may be inspected by appointment at the Office of the Council's Architects, Messrs. Geo. H. Davies and Hurley, 12 Cross-street, Abergavenny, Monmouthshire.

Tenders, sealed in the envelopes provided, are to be received by the undersigned not later than NOON of FRIDAY, the 12th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. J. WILLIAMS,
Clerk of the Council.

Council Offices,
Abertillery,
Monmouthshire.
18th December, 1959.

## URBAN DISTRICT COUNCIL OF BLAYDON.

SMAILES FARM SITE, ROWLANDS GILL.

TO BUILDING CONTRACTORS.

TENDERS are invited for the ERECTION OF 30 SINGLE-STOREY AGED PERSONS' BUNGALOWS and a TWO-STOREY BUILDING at Smailes Farm Site, Rowlands Gill, Co. Durham. Bills of Quantities, forms of Tender and instructions for returning same can be obtained on application to the undersigned.

Closing date for receipt of Tenders, 23rd JANUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

CHAS. H. MATTHEWS,
Clerk of the Council.

Council Offices,
Blaydon-on-Tyne.
14th December, 1959.

## COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

The West Riding Standing Joint Committee invite TENDERS for a NEW CELL BLOCK AND ADAPTATIONS to the existing building at ECCLESFIELD POLICE STATION.

The contract will be subject to the R.I.B.A. Form of Agreement and applications for Bills of Quantities, etc., should be made to the Divisional Architect, Flint-street, Huddersfield, and received not later than 1st JANUARY, 1960.

Drawings may be inspected at the Divisional Architect's Office, Flint-street, Huddersfield, and at Ecclesfield Police Station.

Tender documents will be issued on FRIDAY, 15th JANUARY, 1960, and sealed Tenders must be submitted to me, the undersigned, at Room 46, County Hall, Wakefield, not later than 12 NOON on FRIDAY, 5th FEBRUARY, 1960.

BERNARD KENYON,
Clerk of the County Council.

14th December, 1959.

## COUNTY BOROUGH OF SOUTHPORT.

TENDERS are invited for the EXTERIOR PAINTING OF THE CASINO, FLORAL HALL, and various structures at the Sea Bathing Lake, on the Pier, Foreshore and Pleasureland.

The work is divided into several contracts and Contractors may tender for any number of contracts.

The work is to be started about the middle of February—some contracts to be completed by 13th April, others by 14th May.

The Specification may be obtained from the Borough Architect and Town Planning Officer's Department, 99/105 Lord-street, on payment of £1 1s. 0d., which sum will be refunded on receipt of a bona fide tender.

Tenders to be delivered to the undersigned by 7th JANUARY.

R. EDGAR PERRINS,
Town Clerk.

Town Hall,
Southport.

## HAMBLEDON RURAL DISTRICT COUNCIL.

PARTIAL DEMOLITION AND REBUILDING OF 5 ABBOTS COTTAGES, DOCKENFIELD.

TENDERS are invited from Building Contractors for the STRUTTING UP OF THE ROOF, DEMOLISHING WALLS AND PARTITIONS, AND THE PARTIAL REBUILDING OF No. 5 Abbots Cottages, Dockenfield.

Specification and Form of Tender may be obtained from the Office of the Engineer and Surveyor.

Tenders in the endorsed envelopes provided are to be returned to the undersigned not later than 12 noon on MONDAY, the 18th JANUARY, 1960.

The Council do not bind themselves to accept the lowest or any tender.

Dated this 21st day of DECEMBER, 1959.

ROBIN J. GARLAND,
Clerk to the Council.

Council Offices,
Bury Fields,
Guildford.

## SEVENOAKS RURAL DISTRICT COUNCIL.

DEANERY-ROAD, CROCKHAM HILL.

FIRM-PRICE TENDERS are invited for the ERECTION OF ONE BLOCK OF FOUR FLATS on the above site.

Form of Tender, Specification and Bills of Quantities may be obtained from the Council's Engineer and Surveyor on payment of a deposit of Two Guineas. The deposit will be refunded after the delivery of a bona fide tender, not subsequently withdrawn.

Tenders must be returned to the undersigned by 10 a.m. on TUESDAY, 26th JANUARY, 1960.

The Drawings and Conditions of Contract may be inspected at the office of the Engineer and Surveyor during normal office hours.

The Council does not bind itself to accept the lowest or any tender.

B. H. EDWARDS,
Clerk to the Council.

"Inglewood,"
Oak Hill-road,
Sevenoaks,
Kent.
17th December, 1959.

## COUNTY COUNCIL OF ESSEX.

BASILDON BARSTABLE GRAMMAR SCHOOL.

Contractors wishing to submit a TENDER for the ERECTION of the above should forward their names, from which a panel will be chosen and provided with Bills of Quantities which are expected to be available early FEBRUARY, 1960.

The work consists of short-bore piled foundations, reinforced concrete frame and load bearing cross and spine walls, estimated cost £235,000. The private architects for this contract are Messrs. Yorks, Rosenberg and Mardall, London, W.2.

Applications to reach the undersigned not later than 5th JANUARY, 1960.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

**PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE**

## PUBLIC APPOINTMENTS

ARCHITECTURAL ASSISTANT required by the War Department in the Devizes area. Salary assessed according to age, qualifications and experience in the range £739 (at age 28) to £850 per annum. Please apply stating age, qualifications and experience, to C.R.E. North Wilts., Prince Maurice Barracks, Devizes, Wilts.


Pointing the way...

TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

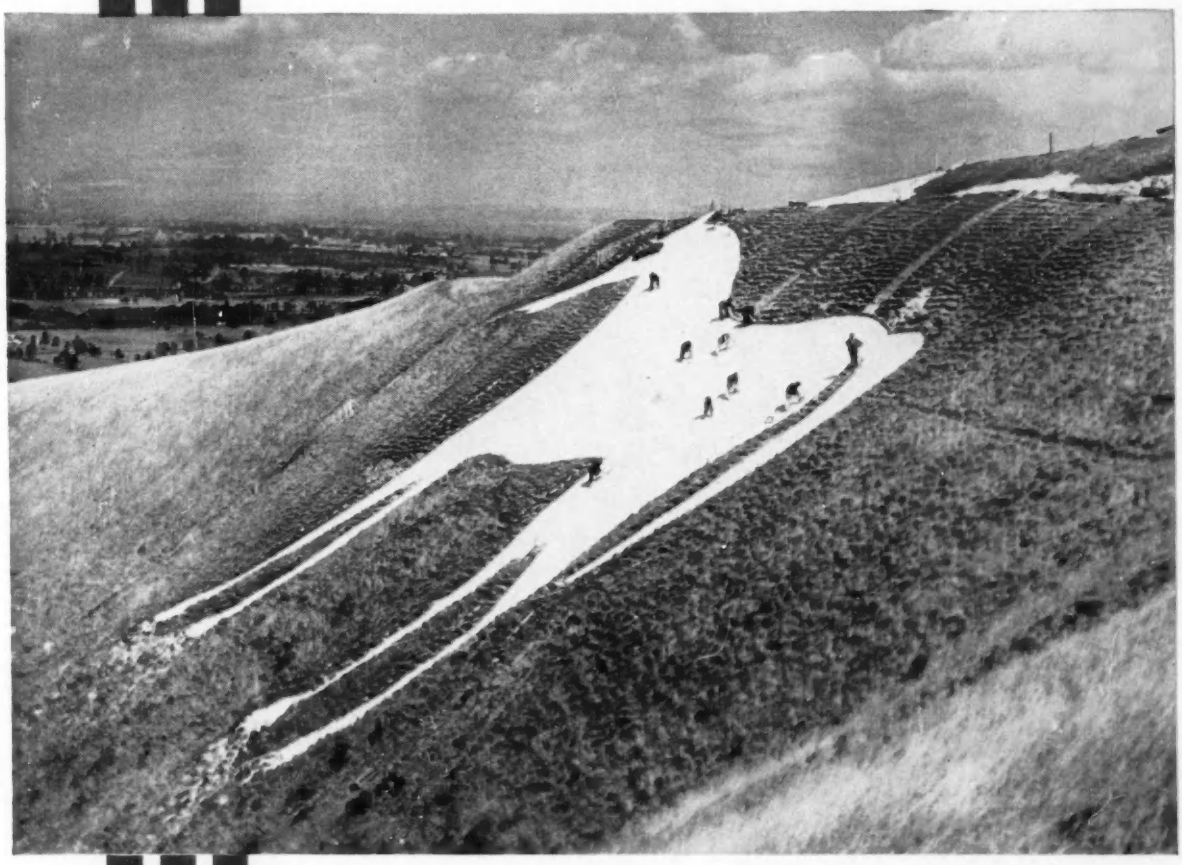
REX

A complete range . . . 3½T, 5E, 7E, 7S, 10S, 12S and 14S with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models. *Illustrated literature and prices on request*

**BLAW KNOX LIMITED** Box No 113
90/94 Brompton Road, London S.W.3. Telephone: KENsington 5151

BK 579

# The White Horse of Westbury*



* When the Ministry of Works recently decided to re-surface the famous White Horse of Westbury, Tunnel White Portland Cement was used. This monument, which commemorates the victory of Alfred the Great over the Danes at Ethandune in the year 878, is now permanently white. The periodic re-cutting of the chalk is no longer necessary.

For full particulars of Tunnel White Portland Cement and our wide range of Coloured Cements please write to our head office.

THE TUNNEL PORTLAND CEMENT COMPANY LIMITED · LONDON ·

**TUNNEL WHITE**

**CEMENT**

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THE TUNNEL PORTLAND CEMENT COMPANY LTD. 105 Piccadilly, London, W.1. GROsvenor 4100

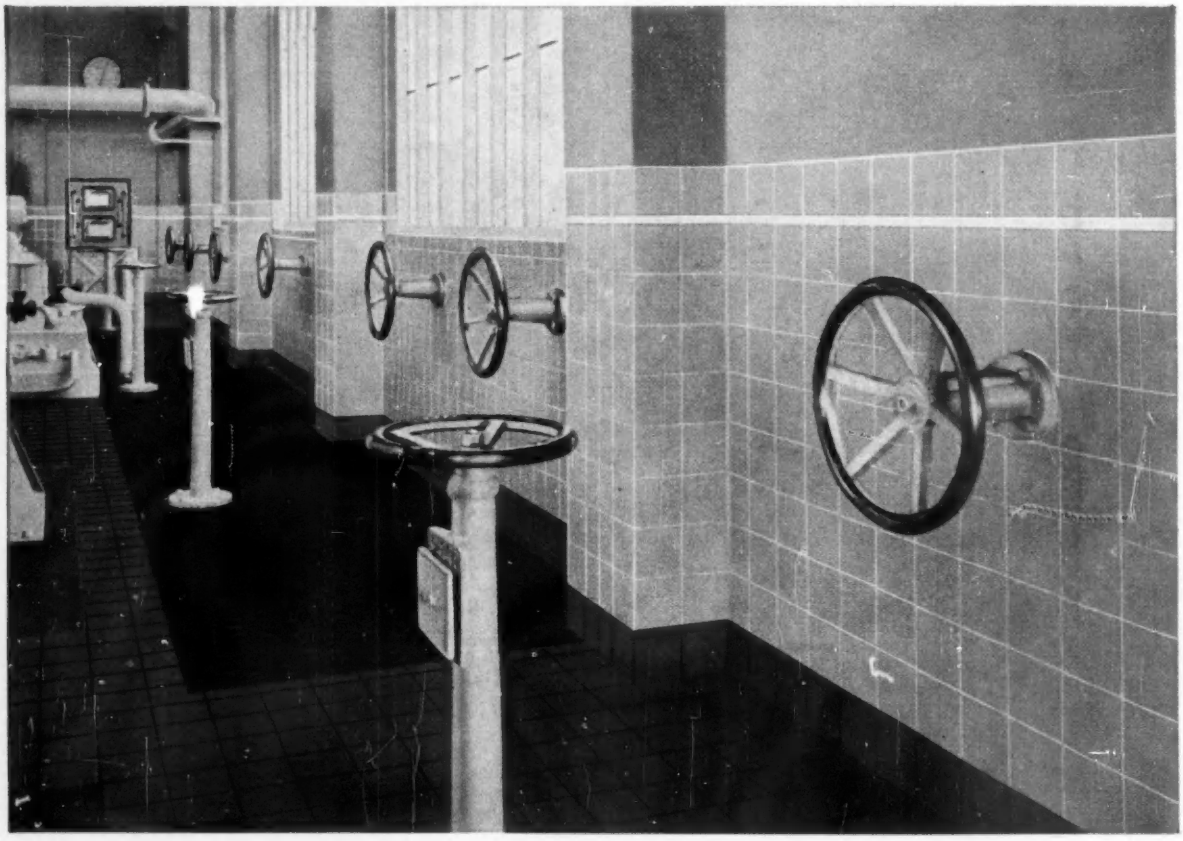
CVS-17

THE NORTH THAMES GAS BOARD

**choose Ceramic Tiles**

. . . as the perfect Wall surface for their Pumping Station at Bromley-by-Bow.

. . . Ceramic Tiles are the obvious choice for modern surfacing.



*Contractors: J. & R. Rooff Ltd.*
*Tiling by: Wiggins-Sankey Ltd.*

Visit the Association's display of ceramic tiles at the Building Centre, Store St., Tottenham Court Rd., W.C.1.

**British Ceramic TILES**

*Glazed & Floor Tile Manufacturers' Association · Federation House · Stoke-on-Trent*

## COUNTY BOROUGH OF STOCKPORT.

(1) BOROUGH ARCHITECT'S DEPARTMENT.

(a) ESTIMATOR / SURVEYOR required, £1,065-£1,220 p.a. (A.P.T. IV), commencing according to qualifications and experience. Qualities required: good knowledge of Building Industry; capable of preparing estimates for new works and alterations; reports on properties; costing.

(b) ASSISTANT WORKS MANAGER required, £880-£1,065 p.a. (A.P.T. III). Must have good experience of building industry, and be capable of controlling and supervising work in all trades.

Applications (stating age, qualifications, experience, two referees) to Borough Architect, Town Hall, Stockport, by 4th JANUARY, 1960. Posts pensionable, subject to medical examination. Canvassing disqualifies. Applicants must state if related to any member/senior officer of Council.

## COUNTY BOROUGH OF DUDLEY.

BOROUGH ARCHITECT'S DEPARTMENT.

(a) ASSISTANT ARCHITECT, Special Grade, £785-£1,070.

(b) ARCHITECTURAL ASSISTANT, Grade II, £765-880.

(c) ARCHITECTURAL ASSISTANT, A.P.T. Grade I, £610-£765.

(d) JUNIOR ARCHITECTURAL DRAUGHTSMAN, General Division, £210-£465.

(e) QUANTITY SURVEYING ASSISTANT, Grade I, £610-765.

(f) JUNIOR QUANTITY SURVEYING ASSISTANT, General Division, £210-£465.

The above appointments will be permanent and superannuable, subject to passing a medical examination, and terminable by one calendar month's notice on either side.

Applicants for (a) should be A.R.I.B.A and for (b) should have passed the Intermediate R.I.B.A.

Applications, together with the names and addresses of two referees, to reach me by FRIDAY, 8th JANUARY, 1960.

P. D. WADSWORTH,
Town Clerk.

The Council House,
Dudley,
Worcestershire.
17th December, 1959.

## CENTRAL ELECTRICITY GENERATING BOARD.

MIDLANDS PROJECT GROUP.

THIRD ASSISTANT ENGINEER (CIVIL).

Applications are invited for the appointment of THIRD ASSISTANT ENGINEER (CIVIL) in the Midlands Project Group at Wolverhampton in the first instance moving to Bournville by approximately March, 1960.

Applicants should have experience in the design and construction of power stations or other industrial buildings and ancillary work, together with experience of building, measuring and estimating civil engineering and building work. They should preferably hold an appropriate qualification.

The salary will be in accordance with the N.J.B. Agreement Schedule "C," Grade 5 (£1,090-£1,300 per annum).

Applications should be made on standard form AE6 available from the Administrative Officer, Midlands Project Group, 53 Wake Green-road, Moseley, Birmingham 13, and should be returned to him not later than 8th JANUARY, 1960.

Envelopes should be marked "Confidential, Staff Vacancy No. MPG.139/59."

## WORCESTERSHIRE COUNTY COUNCIL.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T. III (£880-£1,065) or Special Grade (£785-£1,070) according to qualifications and experience. The County Council may be able to assist with housing accommodation.

Application forms and further particulars should be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14 Castle-street, Worcester, not later than 8th JANUARY, 1960. (U.173.)

## BOROUGH OF BEXLEY.

ARCHITECTURAL ASSISTANTS.

Applications are invited for two appointments in the Borough Engineer and Surveyor's Department. The salary for each of these posts is within Grade A.P.T. II (£765-£880 per annum) plus London Weighting. Preference will be given to suitably qualified candidates with experience of housing and school projects.

Form of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by FRIDAY, 8th JANUARY, 1960.

The Council may be prepared to assist in the provision of housing accommodation. Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

## BOROUGH OF MANSFIELD.

JUNIOR ASSISTANT QUANTITY SURVEYOR.
GRADE A.P.T. I £610-£765.

Applications are invited for the above temporary appointment in the Borough Engineer and Surveyor's Department.

Applicants should have completed training as required by R.I.C.S., commencing salary in accordance with age and experience.

Applications, giving details of training, age and experience, together with names and addresses of three referees, should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield, on or before MONDAY, 11th JANUARY, 1960.

The Council prefer that the person appointed shall live within the Borough.

A. C. SHEPHERD,
Town Clerk.

## BOROUGH OF OLDBURY.

CLERK OF WORKS.

Applications are invited for the appointment of CLERK OF WORKS to superintend the erection of houses, flats and maisonettes to be built by the Council according to A.P.T. I of the National Salary Scales (£610-£765) or A.P.T. II (£765-£880) according to experience.

Candidates must have a thorough knowledge of all branches of the building trade, be capable of taking charge of building development sites and of setting out, taking levels, measuring up, checking quantities, keeping records and making progress charts and reports.

The appointment is superannuable, is subject to the passing of a medical examination and is terminable by one month's notice on either side.

Applications, stating age, experience and qualifications, together with copies of two recent testimonials, should be delivered to the undersigned not later than 12 NOON on the 4th JANUARY, 1960.

Canvassing will disqualify.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury,
Birmingham.

## LONDON COUNTY COUNCIL.

Vacancies in Maintenance and Improvements Division of Architect's Department, for:

(1) ARCHITECTS and BUILDING SURVEYORS required for improvements, alterations and extensions. Jobs up to £20,000. Selected candidates will be responsible for surveys, schemes, working drawings, specifications and supervising contracts. Salary up to £1,135. Ref. EK/117.

(2) BUILDING SURVEYING ASSISTANTS to carry out inspection of buildings for major maintenance and repair works, minor alterations and redecoration. Work involves preparation of specifications and estimates (in most cases based on a schedule of prices), and supervision of works by contractors and direct labour. Salary up to £895. Ref. EK/118.

(3) TRACERS. Experience of tracing and colouring architectural drawings essential. Rate, 14/s. to 19/s. 6d. Ref. EK/119.

Application form returnable by 12th JANUARY, 1960, from Architect, County Hall, S.E.1, quoting ref. no. (2826.)

## BOROUGH OF RUGBY.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the Borough Surveyor's Department. Salary within the Special Grade £785-£1,070.

Commencing salary will depend on qualifications and experience. Housing accommodation will be available if required.

The appointment is subject to satisfactory medical examination, the Local Government Superannuation Acts and termination by one month's notice. Further particulars and form of application may be obtained from the Borough Surveyor, Burford House, Rugby, to whom completed applications must be sent not later than 8th JANUARY, 1960.

T. L. DUFFY,
Town Clerk.

## COUNTY BOROUGH OF EAST HAM.

HOUSING DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited. Salary Grade A.P.T. I (£610 x £30 (4) x £35 (1)—£765) plus London Weighting.

Applicants should have passed the Intermediate Examination of the R.I.B.A., and be experienced in preparation of working drawings and details for construction of new dwellings, conversion of existing properties and drawing office routine.

Further details and application form (returnable by 13th JANUARY, 1960) from the Town Clerk, Town Hall, East Ham, E.6.

## COUNTY BOROUGH OF BOLTON.

HOUSING DEPARTMENT.

Applications invited for appointment of QUANTITY SURVEYOR. Salary A.P.T. II (£765-£880). Applicants should be capable of taking-off and billing quantities, measuring on site, adjusting variations in contracts and preparing estimates for flats and houses. The post is superannuable subject to medical examination.

Applications stating age, qualifications, details of experience and naming two referees to be received by me by 11th JANUARY.

PHILIP S. RENNISON,
Town Clerk.

Amended Advertisement.

## SHEERNESS URBAN DISTRICT COUNCIL.

Applications are invited for the appointment of a QUANTITY SURVEYING ASSISTANT in the Department of the Engineer and Surveyor at a salary within Grade A.P.T. I/II (£610 to £880).

Candidates should have experience in the preparation of estimates, working-up, abstracting, billing, site measurement and working-up to final account stage. Housing accommodation will be considered if required.

Applications, giving particulars of age, qualifications, experience, past and present employment, together with names of two referees should be received by the undersigned not later than 9th JANUARY, 1960.

J. GRIFFITHS,
Clerk of the Council.

Council Offices,
Trinity-road,
Sheerness.

## SOUTH-EASTERN ELECTRICITY BOARD.

SENIOR ARCHITECTURAL AND SURVEYING ASSISTANT
MID-SUSSEX SUB-AREA.

Salary £885-£960 p.a. in accordance with Grade V of the Electricity Supply Industry N.J.C. Agreement. Superannuable. Applicants should be suitably qualified and have had experience in the surveying of land and property, the design and specification of buildings and the construction and maintenance of buildings by contract and direct labour. The person appointed will be required for work in connection with the Board's showrooms, offices, depots, operational and other buildings.

Applications, quoting BLDR and naming two referees, to Mid-Sussex Manager, Seeboard, Mid-Sussex House, North-road, Brighton, by 6th JANUARY, 1960.

GEORGE WRAY,
Secretary.

## COUNTY BOROUGH OF SOUTHAMPTON

Requires under N.J.C. conditions of service:

(a) ASSISTANT ARCHITECT, Special Scale, £785-£1,070. Applicants must have passed Parts I and II of the R.I.B.A. final examination and have had experience in housing design and construction and estate layout, preferably with a municipal authority.

(b) ARCHITECTURAL ASSISTANT, A.P.T. Grade II, £765-£880. Applicants are required to have passed the Intermediate R.I.B.A. examination or its equivalent at one of the recognized schools of architecture, and preferably have had experience in local government housing.

Consideration will be given, if necessary, to the provision of housing accommodation.

Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, by MONDAY, 4th JANUARY, 1960.

## SOUTHAMPTON COUNTY BOROUGH COUNCIL

Requires under N.J.C. conditions of service:—

(a) ASSISTANT QUANTITY SURVEYOR, salary within the Special Grade, £785-£1,070. Applicants must be chartered quantity surveyors, preferably with experience in municipal housing including multi-storey flats and shopping centres.

Consideration will be given, if necessary, to the provision of housing accommodation.

(b) QUANTITY SURVEYING ASSISTANT, A.P.T. Grade I, £610-£765, with good experience in abstracting and billing.

Apply on application forms, obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, by MONDAY, 11th JANUARY, 1960.


MARLEY MULTIPLE GARAGES
IN PRECAST CONCRETE

Of spacious dimensions and good appearance. This fire-proof and rot-proof garage is available in four types—high front, high back, back-to-back and stepped with Marley up-and-over or traditional timber doors.
Low initial cost. Virtually maintenance free. *Marley will supply and deliver only or supply and erect. Installed for hundreds of Local Authorities.* Site work can also be undertaken, if required. We shall be pleased to submit quotations on request. Marley make the best garages.
MARLEY CONCRETE LIMITED Dept. 795 Peasmarsh, Guildford, Surrey (Head Office) Guildford 62986. Shurdington, Nr. Cheltenham, Glos. Shurdington 334/5. Hatchpond Road, Waterloo, Poole, Dorset. Broadstone 626. London Showrooms: 251 Tottenham Court Road, W.1.

## BOROUGH OF WATFORD.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR at a salary in accordance with Grade A.P.T. II (£765-£880) plus a Special Responsibility Allowance of £75 per annum (maximum salary £955 per annum).

Preference will be given to applicants with the Intermediate Examination of the R.I.C.S.

Applications to the undersigned by 1st JANUARY, 1960.

F. C. SAGE,
Borough Engineer and Surveyor.

Town Hall,
Watford,
Herts.

## BOROUGH OF LEYTON.

(Municipal Borough in the County of Essex. Population approximately 100,000.)

BOROUGH ENGINEER'S DEPARTMENT.

Applications invited for appointment of ASSISTANT ARCHITECT at a salary within the scale of £785 per annum rising to £1,070 per annum (plus London Weighting) in accordance with the provisions of the National Scheme of Conditions of Service for Local Authority Staffs (Special Classes).

HOUSING ACCOMMODATION will be made available to successful applicant if required.

5-day week is operated.

Apply by letter to Borough Engineer, Town Hall, Leyton, E.10 (giving names of two referees) not later than MONDAY, 4th JANUARY, 1960.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

## SURREY COUNTY COUNCIL.

Applications invited for the following appointments:

GRADE IV (£1,065-£1,220 p.a. plus £30 p.a. London Allowance.)

ARCHITECTS

Must be Associate Members R.I.B.A. and have had experience in preparation of drawings and specifications, and be capable of assuming responsibility for medium to large scale contracts.

QUANTITY SURVEYORS

Must be Associate Members R.I.C.S. and have had experience of estimating, taking-off, valuing works in progress and final accounts for large public buildings, including all specialist works.

HEATING AND VENTILATING ENGINEER

Must be Associate Member I.H.V.E. and have had experience in design of large heating, ventilating, hot water supply and gas service installations. The successful applicant must be capable of taking charge of works from commencement to final completion.

ELECTRICAL ENGINEER

Must be Associate Member I.E.E. and have had experience in design of large electrical services installations. The successful applicant must be capable of taking charge of works from commencement to final completion.

STRUCTURAL ENGINEER

Must be qualified Structural or Civil Engineer and have had experience in design and detailing of steelwork and/or reinforced concrete for medium to large scale contracts.

GRADE II (£765-£880 p.a. plus up to £30 p.a. London Allowance, according to age).

ARCHITECTURAL ASSISTANTS

Must be of good general training, preference given those who have passed Inter. R.I.B.A.

QUANTITY SURVEYING ASSISTANTS

Preference given those who have passed Inter. R.I.C.S.

ELECTRICAL ENGINEERING ASSISTANTS

Must hold H.N.C. or have passed Section A of I.E.E. and be experienced in layout and design of electrical installation in buildings.

HEATING ENGINEERING ASSISTANT

Must hold H.N.C. or be Graduate I.H.V.E. and be experienced in layout and design of heating and hot water services in buildings.

BUILDING SURVEYING ASSISTANTS

Preference given those who have passed Inter. R.I.C.S. (Building Sub-Division). Capable drafting specifications in all trades, preparation schedules of dilapidations, detailed estimates for general maintenance works and surveys of properties.

Candidates will be appointed at the appropriate point within the scale according to age and ability.

Full details, present salary and three copy testimonials to County Architect, County Hall, Kingston, as soon as possible.

## COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointments:

SENIOR ASSISTANT ARCHITECT. Grade IV, £1,065-£1,220.

ARCHITECTURAL ASSISTANT. Grade II, £ 65-£880.

London Weighting is paid in addition, and salaries in excess of the minima may be paid according to qualifications and experience. The appointments are for work on a new Technical College and are expected to be for a period of not less than 3 years.

Further details and application forms returnable by 15th JANUARY, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

## ST. THOMAS' HOSPITAL—BOARD OF GOVERNORS.

OFFICE DEVELOPMENT, STAGE 1.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for this temporary appointment from men who have had considerable general experience in the building trade and as Clerks of Works. It is expected that construction of this building to contain offices, shops and a public house will commence in February-March, 1960, and will take between 18 and 24 months to complete.

The Clerk of Works appointed may, if he proves in every way suitable, expect favourable consideration for transfer to the main hospital rebuilding project which should commence in 18 months' time. Salary of not less than £1,000 to be determined by experience and ability.

Applications to the Architect, St. Thomas' Hospital, London, S.E.1.

## ST. THOMAS' HOSPITAL BOARD OF GOVERNORS.

REBUILDING OF HOSPITAL AND ENVIRONS.

Design and Working drawings for the first stage of this major scheme are likely to commence immediately and planning studies for the second stage will be starting next year.

Applications are invited for the following appointments on the staff of the Board's Architect. All salary scales are at present under review.

(a) SENIOR ASSISTANT ARCHITECTS (Salary scale £1,050-£1,245 plus London weighting). Applicants must be registered architects with experience in preparing and supervising work on medium sized projects and will be expected to lead a group of architects on a section of the job.

(b) ASSISTANT ARCHITECTS (Salary scale £730-£1,055 plus London weighting). Must be registered architects with initiative and ability as designers and a sound knowledge of constructions.

(c) ARCHITECTURAL ASSISTANTS (Salary scale £545-£765 plus London weighting). Must have reached inter R.I.B.A. or equivalent standard and be good draughtsmen.

Previous hospital experience not essential.

Applications, giving full particulars of qualifications and experience, to W. F. Howitt, A.R.I.B.A., Architect, St. Thomas' Hospital, London, S.E.1.

## EBBW VALE URBAN DISTRICT COUNCIL.

APPOINTMENT OF TEMPORARY ASSISTANT ARCHITECT.

GRADE A.P.T. IV.

An ARCHITECT (Degree, Diploma or A.R.I.B.A.) is required to join a small, but enthusiastic, young group in the Architect's Department, working on the new Civic Centre at Ebbw Vale. The project includes Municipal Offices with Council Chamber and a covered Swimming Pool for immediate construction, with a large Public Hall to follow. Other interesting Schemes include a small Public Hall, Community Centre and an extensive Housing Programme.

The salary will be in accordance with Grade A.P.T. IV, the appointment being subject to one month's notice on either side, and the passing of a medical examination.

Ebbw Vale is in close proximity to the beautiful Usk Valley and Beacon National Park.

The Council will provide Housing Accommodation if required.

Forms of application may be obtained from the undersigned, and applications are to reach him not later than 16th JANUARY, 1960.

HOWARD J. WILLIAMS,
Clerk of the Council.

Ebbw Vale Urban District Council,
Council Offices,
Ebbw Vale.
Mon.

## NATIONAL COAL BOARD. EAST MIDLANDS DIVISION.

QUANTITY SURVEYING STAFF

is required as follows:

S.V.1022 (a)

QUANTITY SURVEYORS, GRADE II (£815 x £30—£1,125).

Applicants should be corporate members of the R.I.C.S.

S.V.1022 (b)

ASSISTANT QUANTITY SURVEYORS, GRADE I (£715 x £25—£850—exceptionally £1,000).

Duties including "Taking-off" under supervision, abstracting, billing and site measurements for all types of building and civil engineering projects.

Candidates should preferably hold an appropriate qualification or have had a good experience in a Quantity Surveyor's or Contractors' Office.

Applications, within 14 days, stating age and giving details of experience and qualifications, to: Divisional Chief Staff Officer, National Coal Board, East Midlands Division, Sherwood Lodge, Arnold, Nr. Nottingham, quoting the appropriate S.V. no.

## BOROUGH OF HESTON AND ISLEWORTH.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above post at a salary in accordance with Grade I of the A.P.T. Division of the National Scale, viz. £610-£765 per annum plus appropriate London "weighting" according to age. A car allowance of £130 per annum will be paid, at the pleasure of the Council, if the successful applicant provides a motor car for regular use in carrying out his duties.

Candidates must have a good knowledge of practical building construction in all branches and the administration of building byelaws and associated regulations. They must also be competent to undertake the inspection of petrol storage installations.

Possession of the Building Inspector's Certificate of the Institution of Municipal Engineers or equivalent qualification will be considered an advantage.

The appointment is a permanent one and is subject generally to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

The Council is unable to assist with housing accommodation.

Applications on forms available from the Borough Engineer and Surveyor, 88 Lampton-road, Hounslow, must be returned to him not later than NOON on 11th JANUARY, 1960, appropriately endorsed.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow, Middlesex.

## HOUSING MANAGEMENT DEPARTMENT.

LONDON COUNTY COUNCIL.

TECHNICAL ASSISTANTS Required for pensionable positions in Works Division. Up to £895 according to experience and qualifications.

(i) MAINTENANCE SURVEYORS, experienced in maintenance of houses and flats, estimating for repairs, preparation of dilapidation schedules and reports.

(ii) BONUS SURVEYORS for measuring and operating incentive scheme for bonus payments on maintenance work, mainly painting and decorating.

(iii) SURVEYORS for measuring and operation of incentive scheme for bonus payments for all trades on new construction and large-scale modernisation and conversions.

(iv) ASSISTANT SURVEYORS for preparation of schedules of materials from drawings and specifications for ordering purposes.

Apply personally (Room 121 South Block) or 'phone WAT 5000, Ext. 6902, for further information, or write giving age, full details of qualifications and experience, and position applied for, to Director of Housing (Ref. G./38), County Hall, S.E.1. (2605.)

## CITY OF PETERBOROUGH.

Applications are invited for an APPOINTMENT of a JUNIOR QUANTITY SURVEYOR. Salary A.P.T. I (£610 x £30—£765).

Application forms from City Engineer, Town Hall, Peterborough.

Closing date 1st JANUARY, 1960. Housing accommodation will be provided if required.

C. PETER CLARKE,
Town Clerk.

Town Hall,
Peterborough.
December, 1959.

## ARCHITECTS AND BUILDING SURVEYORS.

Vacancies in Architect's Department, London County Council, for ARCHITECTS OR BUILDING SURVEYORS experienced in surveying existing buildings, preparing sketch schemes, working drawings and specifications and supervising works in progress, for the complete internal replanning and modernisation of the older blocks of Council flats (jobs up to £50,000).

Applicants should have initiative, a real interest in this type of work and the ability to act on their own judgment since the maximum opportunity will be afforded for each to carry his own job through from survey to completion. Salaries ranging from £700-£1,135. Promotion by merit.

Application form from Hubert Bennett, F.R.I.B.A., the Architect to the Council (EK/L07/59), County Hall, S.E.1. (2399.)

## CITY OF LIVERPOOL.

CITY BUILDING SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of JUNIOR ASSISTANT (SURVEYING). Commencing salary up to £670 per annum, according to experience, increasing to £765 per annum (A.P.T. D.

Applicants must possess the Intermediate Certificate of the Royal Institution of Chartered Surveyors (Sub-Division III—Building) or equivalent qualification or the Higher National Certificate in Building. The duties are the examination of building plans to ensure compliance with building byelaws etc., or the examination of factories and other buildings with respect to the provision of means of escape in case of fire.

Application form from the City Building Surveyor, Municipal Buildings, Dale-street, Liverpool, 2.

The appointment is superannuable and subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER,
Town Clerk.

(J.5948.)

## ARCHITECTS REQUIRED BY: NATIONAL COAL BOARD. EAST MIDLANDS DIVISION.

Applications are invited for the following superannuable posts on the staff of the Divisional Chief Architect at 69 Lower Parliament-street, Nottingham.

(a) ARCHITECTS:

Grade 2, £815 x £30-£1,125.

(b) ARCHITECTURAL ASSISTANTS:

Grade 1, £715 x £25-£850 (exceptionally £1,000).

Grade 2, £595 x £25-£710.

Applicants for (a) must be qualified Architects whilst those for (b) should preferably have passed the Intermediate R.I.B.A. or have had considerable practical experience.

The programme of work is very varied and provides practical experience of Industrial, Welfare and Domestic Projects.

Applications giving details of age, qualifications and experience to: Divisional Chief Staff Officer, National Coal Board, East Midlands Division, Sherwood Lodge, Arnold, Nr. Nottingham.

## STRUCTURAL ENGINEERS.

Various vacancies for ENGINEERS in Architect's Department L.C.C. Up to £1,135, and with good prospects.

(a) STRUCTURAL ENGINEERING DIVISION.—Extensive programme includes multi-storey flats, school, offices, warehouses and other buildings.

(b) STRUCTURAL ENGINEERING DIVISION.—To deal with applications in respect of special structures under Part IV of the London Building Act, (A) Act, 1939, and the constructional bye-laws. Interesting work involving consideration of unconventional forms of construction.

(c) DISTRICT SURVEYOR'S SERVICE.—Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress.

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, EK/112/59, County Hall, S.E.1. (2629.)

## BUILDINGS SURVEYORS.

ARCHITECT'S DEPARTMENT L.C.C. has vacancies in Building Regulation Division and District Surveyor's Service for work in connection with applications under London Building Acts and byelaws. District Surveyor's offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.

Up to £1,135, commencing according to qualifications and experience. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, EK/111/59, County Hall, S.E.1. (2628.)

## BOROUGH OF EDMONTON.

BOROUGH ARCHITECT'S DEPARTMENT.

QUANTITY SURVEYING ASSISTANT (Temporary) Required. Candidates should have passed the First Examination of the Royal Institute of Chartered Surveyors and be studying for the Intermediate. Excellent opportunity of gaining valuable experience in a Borough Architect's Department. Time off and financial assistance for studies. 5-day week. Grade A.P.T. 1 at £610-£765 plus London Weighting £10-£30 according to age.

Applications on forms obtainable from the Town Clerk, Town Hall, Edmonton, must be delivered by 4th JANUARY, 1960.

## UTTOXETER RURAL DISTRICT COUNCIL.

ROCESTER SEWERAGE AND SEWAGE DISPOSAL.

Applications are invited for the appointment of CLERK OF WORKS to supervise the construction of approximately 1½ miles of 9 in. and 6 in. diameter glazed stoneware pipe sewers, together with a Sewage Disposal Works consisting of settling tanks, bacterial filters, humus tanks, sludge drying beds and sewage and sludge pumping stations, under the direction of a Resident Engineer and of the Council's Consulting Engineers, Wilcox, Raikes & Marshall, 33 Great Charles-street, Birmingham, 3.

Applicants must have had good experience of Sewerage and Sewage Disposal Works construction and be well acquainted with the duties of an Inspector. The appointment will be subject to satisfactory service and will be terminated by one month's notice on either side.

Applications in envelopes clearly marked "Clerk of Works, Rocester Sewerage and Sewage Disposal Scheme," giving full particulars of age, experience and previous similar appointments, and when disengaged, stating salary and allowances required, with the names of two referees or copies of two recent testimonials, to be received by the undersigned not later than THURSDAY, the 7th day of JANUARY, 1960.

JOHN H. KENNY,
Clerk of the Council.

Council Offices,
The Old Bank House,
72 High-street,
Uttoxeter,
Staffs.

## OVERSEAS APPOINTMENTS PUBLIC

## NIGERIAN COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY.

DEPARTMENT OF ESTATE MANAGEMENT: ENUGU.

Applications are invited for the following posts:

HEAD OF DEPARTMENT: "B," £2,448-£2,664 p.a. (on contract); "C," £2,160-£2,448 p.a. (on contract).

SENIOR LECTURER: Grade I, £2,160-£2,376 p.a. (on contract); Grade II, £1,500-£1,900 p.a. (on contract).

LECTURER, £828-£1,835 p.a. (on contract).

The Head of Department and Senior Lecturer (Grade I) scales quoted include inducement allowance payable to overseas appointees. The Senior Lecturer (Grade II) and Lecturer scales quoted include an interim addition to basic salaries recently approved for these grades pending salary revision but do NOT include inducement allowance of £240-£300 p.a. payable in addition to overseas appointees. Gratuity at £25 or £37 10s. for each completed 3 months resident service. Entry point according to qualifications and experience.

Pensionable terms might be arranged at lower salaries or College would take over and maintain employers' contributions to former F.S.S.U. policies. Secondment might also be arranged.

Appointments normally on contract for two years, renewable.

Students are offered for the First and Intermediate Examinations of the R.I.C.S. Candidates should be capable of lecturing in one or more subjects in the following sections:

Valuation, Housing Management, Town and Country Planning, Building Surveying and Quantity Surveying; and should hold degree in Estate Management or appropriate R.I.C.S. qualification.

Partly furnished houses at one-twelfth basic salary rental. Tours 10-18 months but leave normally taken in long vacation. Free First-Class passages. Children's U.K. maintenance grant £75 p.a. per child (maximum two children) together with passages assistance.

Applications (8 copies) giving age, qualifications, experience and names of 3 referees should be sent to the Council for Overseas Colleges, 12 Lincoln's Inn Fields, London, W.C.2, by 11th JANUARY, 1960.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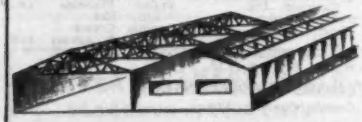

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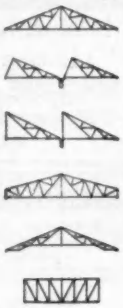

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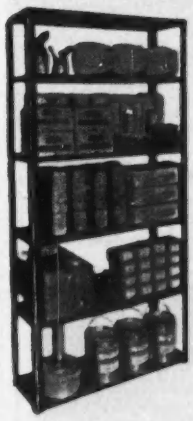

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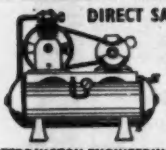
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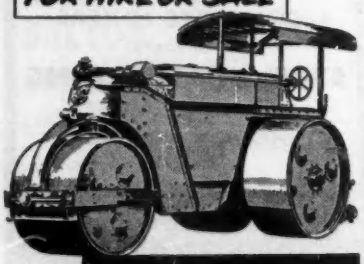

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W. & C. FRENCH, Ltd., urgently Require fully experienced BONUS SURVEYORS for Civil Engineering and Building Contracts.—Apply in writing, stating age, experience and salary required to Personnel Manager, 50 Epping New-road, Buckhurst-hill, Essex.

EXPERIENCED SURVEYORS Wanted, approximate age 28-35; H.N.C. essential, L.I.O.B. or Inter. I.Q.S. an advantage. Interim Valuations, Final Accounts. Pension Scheme; Luncheon Vouchers. Mainly 5-day week.—Write stating age, experience, salary required and when free: Chief Surveyor, A. ROBERTS & Co. Ltd., 79 Eccleston-square, S.W.1.

MEASURING SURVEYOR Required by Croydon Builder.—Reply giving details of experience, age and salary required.—Box 229, "The Builder."

## SUPERVISING SURVEYOR

(Age 30/35)

Alterations and Decorations (Small Works). Able to estimate and organise own contracts. Good salary and annual bonus on results. Free Pension Scheme.

**Box No. 137, "The Builder"**

SURVEYOR Required with builders' office experience to work on small and medium size contracts. This post will give the successful applicant the opportunity to widen his experience under supervision. Age early twenties.—Please write, giving details, stating salary required, to Box 233, "The Builder," endorsed "Staff Application, Personal."

EXPERIENCED MEASURING SURVEYOR Required for a large civil engineering contract in North of England.—Reply, stating age, experience and salary required, to Box 265, "The Builder."

CHARTERED QUANTITY SURVEYORS, W.1, immediately Require SENIOR ASSISTANT, experienced in Taking-off, Final Accounting and General Duties. Salary £1,100-£1,200 p.a.—Box 243, "The Builder."

ASSISTANT SURVEYORS Wanted, approx. age 20-25. O.N.C. essential, H.N.C. an advantage. Assist senior surveyor with interim valuations, subcontractors' accounts, site measuring with Q.S. Pension scheme; luncheon vouchers. Mainly 5-day week.—Write, stating age, experience, salary required and when free, Chief Surveyor, A. ROBERTS & CO. Ltd., 79 Eccleston-square, S.W.1.

BONUS SURVEYOR urgently Required for building works in Angus area; salary in accordance with experience.—Apply stating when available to Secretary, R. PERT & SONS, Ltd., Lower Balmainstreet, Montrose, Angus.

## CHIEF SURVEYOR

A Chief Surveyor is required to take charge of the Company's Building & Civil Engineering Surveying Department.

The successful applicant will be responsible to a Director and will be under the age of 37. He should give full particulars of education, career in the industry, social and recreational interests and present remuneration.

The appointment will carry substantial remuneration, is pensionable, and will be subject to the production of two satisfactory references from responsible persons or organisations.

Applications in writing marked "Chief Surveyor" should be addressed to—

**The Managing Director,**
**William T. Nicholls Ltd.,**
**St. Paul's Road, Gloucester**

## ASSISTANT SURVEYORS

ASSISTANT, Inter. R.I.C.S. standard, Required Chartered Quantity Surveyors, Oxford. Taking-off and Account Settlement in small group under supervision Senior Surveyor. Salary £600-£700.—Box 218, "The Builder."

CHARTERED Q.S. Require, for London office, ASSISTANT, 25-30ish, who is not merely a competent Taker-off, but who also knows how and is not too proud to Work-up as well. 5-day week, LVs, and opportunities for 18-month tours overseas at considerably higher salary plus free living.—Write, stating UK salary required, to Box 168, "The Builder."

ASSISTANT SURVEYOR for East London Building Contractors. Work comprising measuring, site supervision, etc. North London and East Herts. Good prospects. Superannuation scheme.—Write full particulars, Box 313, "The Builder."

FORD & WALTON Ltd., Require an ASSISTANT BUILDING SURVEYOR for their Small Contract Department. Opportunity for young man who has had some previous practical experience.—Write stating age, experience and salary required to Personnel Manager, FORD & WALTON Ltd., Walton-house, Warton-road, E.15.

## TAKERS OFF

TAKERS-OFF Required.—Write or 'phone BOND, FOSTER & PARTNERS, 19 Hertford-street, Park-lane, W.1.

P. T. WALTERS AND WHEATLEY, Chartered Quantity Surveyors, Require TAKER-OFF, WORKER-UP and OFFICE JUNIOR.—Write full details to Sicilian House, Sicilian-avenue, London, W.C.1.

TAKERS OFF Required in City Chartered Quantity Surveyors' office.—Write stating age, experience and salary required, Box 200, "The Builder."

COMPETENT TAKER-OFF Required in London Chartered Quantity Surveyor's office. Apply stating age, experience, qualifications and salary required to Box 957, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers.—Write stating age, experience and salary required to Box 936, "The Builder."

SENIOR and JUNIOR TAKER-OFF Required by G. F. K. WHITE & HAYTON, Chartered Quantity Surveyors, 38/39 Parliament-street, S.W.1.—Please reply stating age, experience and salary required.

LEEDS CHARTERED QUANTITY SURVEYORS Require an ASSISTANT (A.R.I.C.S.), for taking-off and final accounts. Luncheon voucher and pension schemes; 3 weeks' annual leave.—Please reply to Box 124, "The Builder."

JUNIOR TAKER-OFF approaching final standard for small firm in S.W.1, progressive position on varied work. State age, experience and salary required.—Box 148, "The Builder."

GOOD JUNIOR TAKER-OFF, professional office, Westminster. Good conditions and prospects. State salary required. Five-day week. Luncheon vouchers.—Box 219, "The Builder."

FIRST-CLASS TAKER-OFF for professional office near Victoria station. Excellent prospects and congenial conditions. State salary required. Five-day week. Luncheon vouchers.—Box 221, "The Builder."

INTERMEDIATE STANDARD TAKER-OFF Required in Quantity Surveyor's Department of London brewery. Varied and interesting work with good prospects.—Apply giving full particulars of experience to date, age, salary required, etc., to Box 260, "The Builder."

EXPERIENCED TAKER-OFF accustomed to preparation of varied bills, estimates and final accounts. Required for vacancy in London office. Salary commencing at not less than £1,100 per annum with overtime in addition.—Box 271, "The Builder."

EXPERIENCED TAKER-OFF/MEASURING SURVEYOR (A.R.I.C.S. preferred) Required for long term contract at Newport, South Wales. Similar vacancy exists in North Lincolnshire.—Please state age, experience and salary required, to Box 263, "The Builder."

EXPERIENCED TAKER-OFF Required by well-known London Firm of Chartered Quantity Surveyors. Salary up to £1,350 per annum, according to age and experience; L.V.s; five-day week. Overtime paid, and Pension Scheme.—Apply to Box 268, "The Builder."

JUNIOR TAKER-OFF Required by Firm of Chartered Quantity Surveyors in London. Salary £750-£950 per annum.—Please apply stating age, experience and salary required to Box 269, "The Builder."

SENIOR TAKER-OFF, A.R.I.C.S., for Chartered Quantity Surveyors, W.C.2. area. Salary, according to experience, up to £1,400 per annum.—Please write, giving details of age, experience, etc., to Box 290, "The Builder."

TAKERS-OFF Required for London Chartered Quantity Surveyor's office.—Apply WHEELER, RUMBLE & PARTNERS, 16 Grenville-street, W.C.1. TERminus 1107.

JUNIOR TAKERS-OFF Required in London Chartered Quantity Surveyor's office. Promotion from Worker-up would be considered.—Apply WHEELER, RUMBLE & PARTNERS, 16 Grenville-street, W.C.1. TERminus 1107.

SENIOR TAKER-OFF Required by London Chartered Quantity Surveyor.—Please write stating age, experience and salary required to Box 964, "The Builder."

W. & C. FRENCH, Ltd., urgently Require MATERIALS TAKER-OFF at Head Office, age over 35, carpenter and joiner trained preferably.—Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New-road, Buckhurst-hill, Essex.

SENIOR TAKER-OFF, A.R.I.C.S., for Chartered Quantity Surveyors, Holborn area. Salary according to experience, up to £1,400 per annum.—Please write, giving details of age, experience, etc., to Box 314, "The Builder."

## WORKERS UP

JUNIOR WORKER-UP with 18 months' experience and to assist in settlement of final accounts on small varied work. State age, experience and salary required.—Box 149, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. High remuneration for good worker.—Please reply in confidence, to Box 986, "The Builder."

EXPERIENCED WORKER-UP Required by London Chartered Quantity Surveyors. Good prospects for an applicant with the right experience; R.I.C.S. examination. Progress also considered.—Reply stating age, experience and salary required to Box 945, "The Builder."

EXPERIENCED WORKER-UP Required by London Quantity Surveyors.—Write stating age, details of experience and salary required to Box 954, "The Builder."

WORKERS-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply with full personal details to Box 966, "The Builder."

EXPERIENCED WORKERS-UP Required by West End firm of London Chartered Quantity Surveyors, 5-day week, luncheon vouchers and pension scheme. Salary according to experience.—Box 983, "The Builder."

SENIOR WORKER-UP for London Quantity Surveyors.—Write, stating age, details of experience and salary required, to Box 953, "The Builder."

A. S. WILSON AND PARTNERS, Chartered Quantity Surveyors, Require the following staff: London, WORKER-UP; Cambridge, MEASURING SURVEYOR/TAKER-OFF; Preston, Lancashire, TAKER-OFF.—Apply, stating age, experience and salary required, to 8 Storey's-gate, Westminster, S.W.1.

PERMANENT first-class WORKER-UP for Quantity Surveyor's office, Victoria area. Good salary and conditions to experienced man. Five-day week. Luncheon vouchers.—Box 220, "The Builder."

WORKERS-UP Required by DAVIS CONTRACTORS Ltd., 346/350 Kilburn High-road, London, N.W.6, in their Quantities Department. Opportunities for Taking-off on varied works. Good prospects for advancement.—Write, stating age, experience and salary required.

EXPERIENCED WORKER-UP Required for Site Office in Port Talbot, South Wales.—Apply, stating age, experience and salary required, to Box 261, "The Builder."

WORKER-UP who is prepared to make Working-up his career Required for a permanent appointment in London Office of West End Firm of Chartered Quantity Surveyors. Good salary paid to suitable applicant. L.V.s; 5-day week and Pension scheme.—Write, stating age, experience, etc., to Box 262, "The Builder."

EXPERIENCED WORKER-UP Required for Site Offices in South Wales and North Lincolnshire on long term contracts.—Apply, stating age, experience and salary required, to Box 264, "The Builder."

EXPERIENCED WORKER-UP Required in North of England.—Apply, stating age, experience and salary required, to Box 266, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors at large site office in S. Wales.—Apply stating age, experience and salary required to Box 267, "The Builder."

EXPERIENCED WORKER-UP for busy office in London. Commencing salary up to £900 per annum, with overtime in addition.—Box 270, "The Builder."

EXPERIENCED WORKER-UP Required capable of working on own initiative.—Reply in own handwriting stating age and experience and salary required to LISSENDEN, 12 Grafton-street, London, W.1.

WORKERS-UP Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 905, "The Builder."

SENIOR WORKER-UP for Chartered Quantity Surveyors (Holborn area).—Please write, stating age, details of experience and salary required, to Box 300, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyor.—Please write stating age, experience and salary required to Box 965, "The Builder."

SENIOR WORKER-UP Holborn Chartered Quantity Surveyors, capable of taking full responsibility and supervising staff. Salary up to £1,200 per annum.—Please write, stating age, experience and salary required, to Box 315, "The Builder."

## ENGINEERS

SITE ENGINEERS Required for building contracts London area, must have considerable experience in multi-storey concrete framed buildings. Good salary for men with initiative.—Apply in writing, stating age and experience, M. J. GLEESON (CONTRACTORS), Ltd., Haredon House, London-road, North Cheam, Surrey.

ENGINEER for work in connection with site investigations and soil mechanics laboratory Required immediately by Consulting Engineers, F. R. BULLEN & PARTNERS, Dacre House, Dean Farrar-street, London, S.W.1.

ASSISTANT HEATING AND VENTILATING ENGINEER Required, large London Architect's Office.—Applications in writing stating age, qualifications, salary, Box 105, "The Builder."

QUALIFIED CIVIL ENGINEER Required to develop and take charge of a Ground Exploration and Site Investigation Department for large firm of Contractors. Wide experience of similar duties considered essential. Permanent appointment with good prospects.—Apply stating age, experience and salary required to Box 304, "The Builder."

### JUNIOR ENGINEER

required to supervise reinforced concrete multi-storey structures in the Midlands. An excellent opportunity for young energetic man—progressive position. Good salary, bonus: superannuation. Apply to:

**WATES LIMITED,**
**Exchange Buildings, New Street Birmingham, 2.**

## ESTIMATORS

ASSISTANT ESTIMATOR Required London firm (West End) to handle Decorations, Conversions, and small works.—Write stating age, experience and salary required to Box 290, "The Builder."

ESTIMATOR-SURVEYOR Required for medium-sized builders in the S.E. London (Kent) area; salary according to age and experience.—Please write Box 130, "The Builder."

ASSISTANT ESTIMATOR Required for building department in London. Good salary and opportunities offered to keen, knowledgeable applicant in an expanding organisation. The position is permanent and a pension scheme is in operation.—Write giving full particulars, Chief Surveyor, A. A. S. & SONS, 10 Upper Grosvenor-street, W.1.

### INDUSTRIAL PAINTING

**TOP WEIGHT MAN**
*FOR*
**SUBSTANTIAL LONDON COMPANY**

Keen Estimator and Supervisor with the necessary contacts to enlarge an already thriving business.

Candidate should be about 35 yrs. A good disciplinarian and with the experience to permit him to make a highly remunerative career for himself. The position is pensionable (non-contributory) and carries with it an annual bonus on results.

**Box No. 138.**

### SENIOR ESTIMATOR

required by manufacturers of prefabricated steel and timber buildings. Excellent opportunity for man with experience and sound technical knowledge, to take charge of harmonious team. Good salary, pension scheme, etc., awaits the right applicant for this permanent position with a bright future.

**Apply J. E. Lesser & Sons Ltd.,**
**Green Lane, Hounslow, Middx.**

### BOVIS LTD.

**have vacancies for**

### ESTIMATORS

**at their Head Office in the West End of London.**

They require young men about 25 years of age who have had some training in pricing bills of quantities and feel ready to undertake more responsible work. Supervision and training will be given as long as necessary to reach the required standard. The work involves a much more varied and interesting procedure than the usual run of estimating, producing thoroughly trained men skilled in analysis of rates for all trades. The Company is progressive in outlook and gives encouragement to young men who are interested in promotion. Normal amenities are offered: annual bonus scheme, superannuation, staff canteen, etc. Salary will depend on experience, but there is a minimum of £750 per annum. Successful applicants will be given an opportunity, after a period of estimating, to broaden their activities into measuring, surveying or contract management, if required.

**Apply in writing stating age and experience to Department MC, 1 Stanhope Gate, W.1.**

ASSISTANT ESTIMATOR/SURVEYOR Required by medium-sized Builders and Contractors in Reading area. Applicants must be capable of dealing with contracts up to £30,000 from inquiry to final account with the minimum amount of supervision. House available.—Apply in writing, stating age, experience and salary expected to Box 307, "The Builder."

### ESTIMATOR/SURVEYOR

**required by**
**progressive firm N.E. London**

L.I.O.B. an advantage. Pension scheme. Apply in writing giving details to

**Box No. 302, "The Builder"**

ESTIMATOR Required, aged 28-33, at least five years' experience estimating all types contract. Knowledge of price analysis essential. Quick progress probable for right man.—Please apply Box 197, "The Builder."

C. MISKIN & SONS, Ltd., invites applications for the post of SENIOR ASSISTANT ESTIMATOR. Applicants must have had first-class experience and be capable of estimating for Building Contracts of every size and description. Applications will be treated in confidence and should state past experience, age, and salary required, and be addressed to The Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

## SENIOR ESTIMATOR

(*Age about* 30)

Responsible to Head of Department for building works up to £100,000 in value. Central London Firm.

## Contract Surveyor

(*Age about* 30)

To take charge of progress valuations, bonusing and final account work. Assistance given.

The above appointments are part of a policy of expansion of a successful firm and offer excellent prospects for advancement in a thriving and expanding business.

The successful applicants will be able to share in the prosperity they create—annual bonus on results.

**Box No. 139, "The Builder."**

BUILDER'S ESTIMATOR/SURVEYOR Required, small and medium size contracts.—Please write giving full particulars and salary required to WILLIAM HARBROW, Ltd., 214 Rotherhithe New-road, S.E.16.

FENCING CONTRACTORS Require ESTIMATOR, preferably experienced in the trade but would consider applicants from other branches of the Building Industry.—Apply in writing stating previous experience: VARDALE FENCING Co., Ltd., 68-76 Varcoe-road, S.E.16.

## MANAGERS

JUNIOR ASSISTANT CONTRACTS MANAGER on medium-sized contracts. Practical knowledge as well as technical necessary. Opportunity open for advancement.—Apply Box 198, "The Builder."

**B. WHITEHOUSE AND SONS LIMITED.**

Due to expansion we intend making the following Senior Staff appointments:

### JOINERY MANAGER

Applications are invited from experienced persons able to do own estimating and to control and organise Shop/Mill programmes. Full details stating age, experience and indication of salary in the first instance to the Contracts Department Manager.

### PLANT MANAGER

This post requires an energetic person with experience in the control, maintenance and organisation of Builders' Plant Depot. Applications in writing stating age, experience and indication of salary in the first instance to the Contracts Department Manager.

These appointments provide excellent opportunities with old established progressive Firm, together with permanent and pensionable employment.

**R. WHITEHOUSE AND SONS LIMITED, PARK HOUSE WORKS, 247, MONUMENT ROAD, EDGBASTON, BIRMINGHAM, 16.**

PLANT MANAGER Required by London Building Contractors to control repairs and maintenance to Mechanical Plant in Workshop and Field. Applicants must be possessed of drive and ability, competent at administration level. Permanent, pensionable position with good salary and bonus.—Write Box B779, L.P.E., Romano House, 399/401 Strand, London, W.C.2.

## CLERKS OF WORKS

CLERK OF WORKS Required immediately for contract value approximately £100,000 just commencing at South Ruislip. The project is in the form of an extension to an existing factory.—Please apply ERIC FIRMIN & PARTNERS, Thavies Inn House, 4 Holborn Circus, E.C.1. Tel. City 8811.

CLERK OF WORKS with good experience in sound building practice Required quickly. Must have good knowledge of various building materials and control of men and be capable of measuring up as work proceeds.—Reply giving details of training, experience, and salary required to LEACH, RHODES & WALKER, Chartered Architects, 90 Deansgate, Manchester, 3.

GRENFELL BAINES & HARGREAVES Require services of experienced CLERK OF WORKS for New Buildings and Alterations to Existing, at Langdale and Dalton Halls of Residence for the University of Manchester. Largely traditional construction, but full modern services and quality finishes. Candidates should be capable of judging quality in building construction, of assisting in co-ordination, and of maintaining good relations on site, while securing first-class work. Salary ranging from £900 to £1,100 per annum.—Apply: 12 Guildhall-street, Preston. Tel. No.: 56231.

CLERK OF WORKS, BUILDERS' FOREMAN or QUANTITY SURVEYOR, age 35 to 45, Required for supervision of maintenance repairs and cleaning of large building in London. Write, stating experience. Salary £18 per week.—Box 316, "The Builder."

## SENIOR CLERK OF WORKS

W. F. Vetter and Kenneth Scott Associates require a Senior Clerk of Works for a large hospital project in Accra, Ghana. Applicants must have had considerable experience of large scale building projects. Previous experience of overseas work and/or hospitals will be an advantage though not essential.

The conditions of service will be in accordance with those of the Public Works Department of Ghana and are summarized here:

**Salary Scale** £1380 x £50 to maximum £1730 (with 15 years' previous experience).

**Gratuity:** £12 10.0 per month of satisfactory completed service.

**Passages:** 1st class air (also for wife and up to 3 children under 18).

**Length of tour:** 18 months.

Leave at 6 days per month completed. Furnished accommodation provided at rent of £60 to £75 p.a. (according to salary scale).

**Allowances:** Car purchase and maintenance, Children's education (Outside Ghana), Outfit.

Applicants should apply in writing in the first instance giving the fullest possible information of experience and qualifications, to **William F. Vetter and Kenneth Scott Associates, 81, Wimpole Street, W.1.**

## BUYERS

BUYER Required by progressive Angus (Scotland) Building Contractors. Must be experienced, possess initiative and require minimum of supervision.—Applicants should submit details of past experience, salary required, and when available to Box 297, "The Builder."

BUYER Required by South Manchester Building Contractor. Ability to negotiate purchases for all types of building materials, including Timber and Plant, desirable. This is a unique opportunity for a competent man in an expanding organisation. The post is permanent and pensionable.—Write full details of experience, age and salary expected, to Box 286, "The Builder."

BUYER Required by well established firm of S.E London Contractors capable of buying in all trades and preparation of Schedules from Bills of Quantities and Drawings.—State age, salary and experience to Box 928, "The Builder."

ASSISTANT BUYER Required, must have experience of buying in all trades.—Apply in writing, stating age, experience and salary expected, M. J. GLEESON (CONTRACTORS), Ltd., Haredon House, London-road, North Cheam, Surrey.

**HUMPHREYS LIMITED**

*Builders and Civil Engineering Contractors*

**199 Knightsbridge, S.W.7**

## ASSISTANTS for PURCHASING Dept.

**Male, ages 21 to 30, G.C.E. Standard. Female, ages 25 to 35, G.C.E. Standard,** must be experienced Comp. Operator. Good salary and conditions, superannuation scheme. Apply personnel dept. giving age, experience, salary required and when available.

## REPRESENTATIVES

SHOPFITTING REPRESENTATIVE Required. Good prospects.—Application to: Managing Director, E. POLLARD & CO., Ltd., 159 St. John-street, London, E.C.1.

SALESMAN for prefabricated concrete garages. Essential to possess up-to-date contacts with local councils. Opportunity to join new and expanding Company. Bonus and pension schemes.—Write in confidence giving full details of past and present employment and salary required.—BATHCRETE Ltd., 41 Norwood-road, London, S.E.24.

## AGENTS

SITE AGENTS and GENERAL FOREMEN Required for Private Housing Developments in Southampton, Exeter, Swansea and Kent areas.—Apply stating age and experience to Housing Construction Manager, Box 3686, "The Builder."

AGENT and two SECTION FOREMEN Required for HOUSING CONTRACT commencing mid-December, Barnet area.—Apply, giving full details of past experience, Box 972, "The Builder."

EXPERIENCED SITE AGENTS Required to supervise various types of building erection in Northern England, Southern Scotland and Southern England. Applicants must be able to take complete control and be responsible for the whole of the work from inspection to completion, including co-ordination of sub-contractors, etc. The positions are in a rapidly growing building and civil engineering Company and could lead to promotion to Contracts Manager level at an early date.—Box 287, "The Builder."

**ALLEN FAIRHEAD & SONS LTD.**

**require**

## SITE AGENT and GENERAL FOREMEN

**of ability and character.**

*Please reply to*

**Alan Fairhead, Managing Director, Allen Fairhead & Sons Ltd., Enfield.**

**BUILDING CONTRACTOR**

requires

SITE AGENTS
GENERAL FOREMEN
LEADING CARPENTERS

for medium sized contracts in West Midlands

**J. Harper & Sons (Blackheath) Ltd., Blackheath, Birmingham.**
BLA 2011.

## FOREMEN & SUPERVISORS

EXPERIENCED GENERAL FOREMAN Required, middle of January. C. and J. preferred, small reinforced concrete structure. East London.—Write giving full details, in confidence, of past experience, age, and salary expected. Box 301, "The Builder."

GENERAL FOREMAN Required for Contract and Jobbing Work with Building Contractors employing approx. 80 men. West Sussex coastal area. Applicants should have ability to control and organise outside staff and have a sound knowledge of all trades. Car provided.—Please state details of age, training and practical experience. Box 291, "The Builder."

GENERAL FOREMAN.—Competent General Foreman Required for traditional brick and concrete constructed general contracts. The appointment will be made early in 1960 and offers advancement into Contract Management. Permanent position in an expanding organisation.—Applicants are invited to write, stating age and experience, to Contracts Manager, A. A. STUART & SONS Ltd., 10 Upper Grosvenor-street, W.1.

GENERAL FOREMAN. Old-established building firm in London, W.8, owing to retirements, Requires a GENERAL FOREMAN, preferably one who can drive, and estimate for jobs up to £5,000.—Please apply giving details of experience and remuneration expected to Box 308, "The Builder."

GENERAL FOREMAN immediately Required for shops and maisonettes contract, Crawley area. Must be used to good quality work. Preferably C. & J. but not essential.—State age, previous experience and salary required. Box 319, "The Builder."

GENERAL FOREMAN for new educational wing and living quarters at training college, Putney area. Contract value £100,000. Good opportunity for keen and experienced man.—Write particulars to W. J. MARSTON & SON, Ltd., 1 Stephendale-road, S.W.6.

GENERAL FOREMAN Wanted for private housing development, Midland counties. Excellent prospects for good energetic man. Traditional and non-traditional methods of construction. Carpenter preferred, used to working to tight programme. Must have had experience of housing works and be available mid-January, 1960.—Age, experience, salary and two references to WHEELER & MANSELL, Ltd., P.O. Box No. 8, Lime-street, Evesham, Worcs.

GENERAL FOREMAN of drive and ability for medium-sized contracts. Age 35-45 preferred. Opportunity of permanency for right man.—Apply in writing stating experience and salary required to COURTENAY & FAIRBAIRN, Ltd., 377 Albany-road, Camberwell, S.E.5.

Medium-sized Building Contractors require a competent, experienced

**GENERAL FOREMAN**

to take charge of housing and general contracts, ranging from £40,000–£200,000 value, in Brighton and adjacent coastal areas. The post offered is with a rapidly expanding Company and will offer the opportunity of further advancement into Contracts Management, coupled with the possibility of permanent, pensionable employment after a reasonable trial period. The position offers opportunity for ambitious and keen foremen who are invited to write in confidence, outlining qualifications and previous experience to:
**Box No. 288, "The Builder"**

GENERAL FOREMAN Required for Road and Sewer Contract, East Essex. Only experienced men able to set out and use Dumpy need apply.—Write, giving details of experience and salary expected to Box 320, "The Builder."

GENERAL FOREMAN, experienced, Required for first class long term private development, flats and housing. C. and J. preferred. Knowledge of Dumpy. Age immaterial provided conscientious and trustworthy. Permancency for suitable applicant. Aldershot area.—Full details to Box 321, "The Builder."

WANTED: Top grade BUILDING FOREMAN for Multi-storey block of flats Brighton/Shoreham area. Only men of proven ability need apply.—Box 125, "The Builder."

CONTRACTS SUPERVISOR. Bedfordshire firm expanding to £120,000 t/o. Requires an experienced SUPERVISOR for building operations including housing estates and contracts from £1,000 to £40,000. Applicants must convince Directors of modern attitude towards planning of work, knowledge of incentive systems, and ability to achieve high productivity. Moderate salary, car or allowance, plus substantial recognition of results.—Write Box 179, "The Builder."

FIRST-CLASS GENERAL FOREMAN Required, housing contracts large and small. Southern Counties.—Box 904, "The Builder."

GENERAL FOREMAN Required for good-class housing estate in Bagshot area. Previous experience in this class of work essential, including ability to set out estates and lay roads and sewers.—Apply in writing, A. E. A. PROWTING Ltd., Bury-street, Ruislip, Middlesex.

GENERAL FOREMAN Required for good class housing estate in Chesham area. Previous experience in this class of work essential, including ability to set out estates and lay roads and sewers.—Apply in writing, A. E. A. PROWTING Ltd., Bury-street, Ruislip, Middx., stating age, salary and experience.

CONTRACTS SUPERVISOR Required for work in London and Home Counties area. Applicants must have drive and ability, and be fully experienced in the control and supervision of large building contracts of every description.—Write in confidence giving age, details of previous experience and employers, and salary required, to The Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

WEST END Decorators Require SUPERVISOR. State age, experience and salary expected with details of present position.—Box 238, "The Builder."

**THE LYON GROUP OF INDUSTRIAL AND DOMESTIC DEVELOPERS**

Due to rapid Group expansion

**BUILDING SUPERVISORS**

are required to take complete charge of development sites. Interesting and varied work for applicants displaying competence and initiative with an opportunity for advancement. Please apply to the Contracts Manager,

Ronald Lyon (Estates) Co. Ltd.,
Lyon House, Lyon Road,
Hersham, Surrey.

## BRICKLAYERS

BRICKLAYER / HANDYMAN Required, rate 5s. 3d. State age. London, N.W.1., area.—Box 183, "The Builder."

## CLERKS

TYPIST AND GENERAL OFFICE DUTIES for Quantity Surveyors, W.C.1 —Experience, age and salary required to Box 914, "The Builder."

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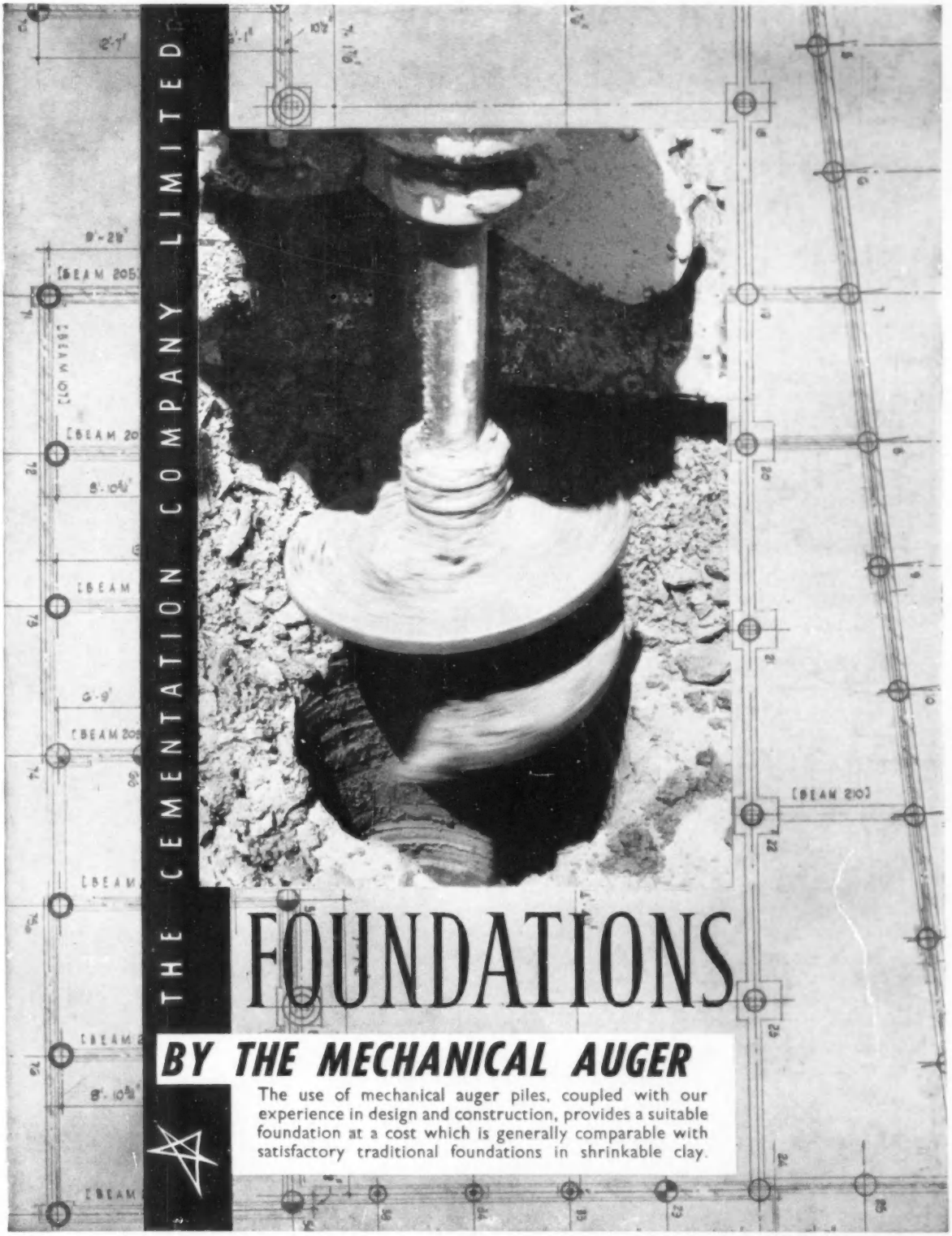


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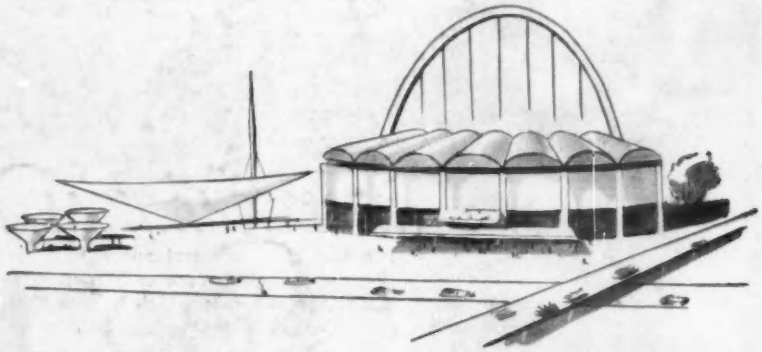

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